Ivan Stojmenović

Curriculum vitae (November 2008): Full size

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Personal data:

Born in 1957. Married, has two children. Citizen of Canada and Serbia.

Education:

B.S. degree in mathematics from the University of Novi Sad, Serbia,1979.
M.S. degree in mathematics from the University of Novi Sad, Serbia, 1983.
Ph.D. degree in mathematics from the University of Zagreb, Croatia, 1985.

Professional experience:

May 1995 - present	Full professor (tenure) at the School of Information Technology and Engineering (Computer Science Department until 1997), University of Ottawa, Ottawa, Canada;
June-Sept 2008	Visiting researcher at LRI, University de Paris-Sud 11, France
2007 - 2008	Chair in Applied Computing, EECE, University of Birmingham, UK
1998-2003	Cross-appointment with the Department of Mathematics and Statistics, University of Ottawa
June-July 2002-2004	Visiting researcher at University of Lille, France
Fall 2000, Fall 2001	Visiting researcher at DISCA, IIMAS, Universidad National Autonoma de Mexico, Mexico D.F., Mexico
July 1988	Visiting researcher at Univ. Picardie Jules Vernes, Amiens, France
April 1991 - April 1995	Associate professor (tenure) at the Computer Science Department, University of Ottawa, Ottawa, Canada
July 1988 - April 1991	Assistant professor (tenure track) at the Computer Science Department, University of Ottawa, Ottawa, Canada
Jan. 1988- June 1988	Visiting assistant professor at the Department of Mathematics and Computer Science, University of Miami, Coral Gables, USA.
Aug.1987 - Dec. 1987	Visiting assistant professor at the Computer Science Department, Washington State University, Pullman, USA.
July 1985 - July 1987	Assistant professor at the Institute of Mathematics, University of Novi Sad, Novi Sad, Yugoslavia
Nov. 1985- Feb. 1986	Visiting researcher at the Electro-technical Laboratory, Tsukuba, Ibaraki, Japan.

Oct. 1980-June 1985 Teaching Assistant at the Institute of Mathematics, University of Novi Sad, Novi Sad, Yugoslavia

Awards, Honours and Recognitions:

Handbook of Sensor Networks (I. Stojmenovic, ed.), *Sold as Curriculum tool as part of WSN Classroom Kit by Crossbow, http://www.xbow.com/Products/productdetails.aspx?sid=233* .

h-index (Publish and Perish; number of papers with ≥25 citations): ***30*** (August 2008)

IEEE Fellow, Communications Society, effective 1 January 2008, for contributions to data communication algorithms and protocols for wireless sensor and ad hoc networks.

Certificate of Appreciation, In honor of recognition of outstanding contribution as tutorial speaker at the first International Conference on Sensor Technologies and Applications (SENSORCOMM 2007), October 14-20, 2007, Valencia, Spain.

Best Paper Award, IARIA International Conference on Sensor Technologies and Applications SENSORCOMM 2007, October 14-20, 2007, Valencia, Spain.

Recognition of Service Award, MASS 20007 Program Chair. 4th IEEE International Conference on Mobile Ad-hoc and Sensor Systems, October 8-11, 2007, Pisa, Italy.

Certificate, as Area Editor, Distributed Computing and Systems, Journal of Computer Science and Technology (2007-2010) Beijing, P.R. China, China Computer Federation.

Outstanding Service Award, as Program Co-Chair, ISPA-07, August 2007.

Outstanding Service Award, as Program Chair, IEEE AINA, May 2007.

Royal Society Wolfson Research Merit Award, UK, June 2006.

Citeseer August 2006: **I. Stojmenovic in the top 0.56% most cited authors in Computer Science** http://citeseer.ist.psu.edu/allcited.html , listed #4396 out of 790329 authors, with 514 citations (August 2005: top 0.58%, listed #4464 out of 773109 authors, with 489 citations)

Donald E. Knuth included our integer partition generator in his historical The Art of Computer Programming, Volume 4, Fascicle 3, Errata Oct. 25, 2005.

Senior Member, IEEE, January 2005.

Faculty of Engineering's 2004-2005 George S. Glinski Award for Excellence in Research, University of Ottawa.

Profile for December 2004, Science Arena, Physical Sciences Newsletter, Taylor & Francis Group, *http://www.sciencearena.com/sciencearena/about/about.htm* .

Best Paper Award, 9th IFIP Int. Conference on Personal Wireless Communications PWC, September 21-23, 2004, Delft, The Netherlands.

Plaque, **Guest Editor With Appreciation,** *IEEE Network,* September 2004.

Plaque, **Guest Editor With Appreciation,** *IEEE Communications Society,* August 2004.

Fast Breaking Paper, October 2003 (the only one in October for the entire computer science, and one out of four papers awarded to computer science field for the whole year 2003; awarded bimonthly to 12-15 highly cited papers from 22 broad fields of science), ***Thomson ISI Essential Science Indicators*** *http://esi-topics.com/fbp/fbp-october2003.html* .

Editor's choice*, IEEE Network column,* July 2002, (Ioannis Nikolaidis, ed.), for: *Handbook of Wireless Networks and Mobile Computing* (I. Stojmenovic, ed.), Wiley, 2002.

Certificate of Appreciation, *IEEE Computer Society*, 'for his outstanding contribution as a founding Managing Editor of Multiple-Valued Logic, An International Journal', May 2002.

Fulbright Senior Fellowship, Government of the USA (Computer Science), 1987-8.

Government of Japan award for foreign specialists, 1985.

Scholarship from the Serbian Ministry of Higher Education, 1976-9.

Third degree prize at the International Mathematics Olympiad for secondary schools, Lienz, Austria, 1976 (competition of 25 countries, each with 8 members; competing for Yugoslavia, placed in top 25%); ranked 2nd in the Yugoslavian team.

Citizenship Award for the Municipality of Odzaci, Voivodina, Serbia, 1976.
Best Student Award, High School in Odzaci, Voivodina, Serbia, 1976.
Third degree prize and third place at the national physics competition for secondary schools, Yugoslavia, 1975.
Winner of mathematics and physics competitions in the province of Voivodina, Serbia, 1975 and 1976; winner of regional competitions about ten times.

Teaching experience:

Had taught the following courses at the University of Ottawa:

Undergraduate
EE3A2 Computer Networks (University of Birmingham, UK, 2008)
CSI 4130 Computer graphics
CSI 3104 Introduction to formal languages
CSI 1100 Introduction to Computer Science I
CSI 2301 Computing concepts and data structures
CSI 3103 Data transmission and computer networks

CSI 3105 Design and analysis of algorithms
CSI 3150 Computational methods for numerical problems
CSI 3101 Basic logic functions and their implementations
CSI 1101 Computing systems design and implementation
CSI 1190 Computer programming for engineers
CSI 1301 Computing concepts for business
Graduate
CSI and ELG: Wireless Ad Hoc Networking
CSI 5169 Wireless networks and mobile computing (also taught at UNAM, Mexico)
CSI 5131 Parallel algorithms and their VLSI implementation
CSI 5165 Combinatorial algorithms

Undergraduate course designed
CSI 4140 Introduction to parallel computing (1994)
Graduate courses designed:
CSI 5165 Combinatorial algorithms (1988)
CSI 5169 Wireless networks and mobile computing (1999)
CSI and ELG: Wireless Ad Hoc Networking (2004-5).

Changes in undergraduate course descriptions:
CSI 4130, CSI 3101, CSI 3104, CSI2301.

Programming languages used for teaching/research:
PASCAL, FORTRAN, LISP, PROLOG, C, BASIC, COBOL.

Computer science education: articles, textbooks, implementations

Ivan Stojmenovic, Recursive algorithms in computer science courses, **IEEE Transactions on Education,** Vol. 43, No. 3, August 2000, 273-276.

Stojkovic V., Tosic D., Stojmenovic I., **Programming Language PASCAL** (Serbian), Scientific Book (Naucna knjiga), Belgrade, Yugoslavia, 1984 (2nd edition 1986), pp. 259 (this textbook was used at University of Belgrade and University of Novi Sad, Serbia).

A FORTRAN compiler for LISP language (with. Lj. Jerinic and V. Stojkovic), used in undergraduate course on functional programming languages, University of Novi Sad, Serbia, 1983.

Grants:

ProSense ("Promote, Mobilize, Reinforce and Integrate Wireless Sensor Networking Research and Researchers: Towards Pervasive Networking of WBC and the EU"), EU-FP7-Cooperation/Support Action in the REGPOT-2007-3-01. March 1, 2008 – February 28, 2010. Total: 106.500 euros for the University of Birmingham, UK. Scientific Coordinator for University of Birmingham.

"Maintaining fault-tolerant networks of robots for supporting wireless sensor networks", NSERC Strategic Grant STPSC356913-2007B, March 2008-February 2010; A. Nayak (PI) and I. Stojmenovic; $99,000+$99, 500.

"Data Communication in Wireless Ad Hoc and Sensor Networks", Royal Society Wolfson Research Merit Grant, UK, 21.600GBP/year for five years, from 2007.

"Energy Conserving Coordination and Data Communication in Wireless Sensor Actuator Networks",
NSERC Strategic Grant STPGP 336406-07, October 2006-September 2009, ≈$120,000/year for three years. Principal Investigator: Ivan Stojmenovic, co-investigator: Amiya Nayak. Partner companies: Eion Inc. and Cistel Technologies.

"Infrastructure for Advanced Research in Wireless Sensor Networks with Realistic Physical Layer", NSERC Equipment Grant, April 2006- March 2007, $75,534. Principal Investigator: Ivan Stojmenovic, co-investigators: Miodrag Bolic, Amiya Nayak.

"Scalable, secure and localized data communication and topology control protocols for wireless ad hoc networks", NSERC Collaborative Research Development (CRD project # 319848); February 2005- February 2008, approx. $120,000/year for 3 years.
Principal Investigator: Ivan Stojmenovic, co-investigators: Amiya Nayak, Nejib Zaguia.
Partner companies: Eion Inc. and Cistel Technologies.

"*Data Communication in Wireless Ad Hoc and Sensor Networks*",
NSERC, 2005-2009, $24.000 per year.

"3D Human motion analysis using UWB wireless network technology", Interfaculty Collaborative Research Initiative, University of Ottawa, April 2004-March 2006, $20,000, Principal Investigator: Ivan Stojmenovic, co-investigators: Ed Lemaire (Faculty of Medicine), Sergey Loyka (Faculty of Engineering).

"Scalable wireless ad hoc, sensor and local area networks organization and data communication", Proyecto No.400316-5-37017-A, CONACYT, Mexico, 2001, 2002, 2003, approx. US $ 50.000/year; Principal Investigator: Ivan Stojmenovic, co-investigators: Fabian Garcia, Julio Solano (grant awarded to Ivan Stojmenovic as PI, and transferred to Julio Solano as new PI).

"Advanced mathematical methods for cryptographic security and modeling of information", Principal Investigator: Miodrag Mihaljevic (Mathematical Institute, Serbian Academy of Science and Arts), 21 co-applicants, Project 1625, Ministry of Science, Technology, and Development, Serbia, 2002, 2003, 2004, approx. US $ 60,000/year.

"*Wireless, interconnection, Internet and neural networks*",
NSERC, 2001-2004, $22.000 per year
"Position based power efficient data communication in wireless networks",
SUB-REDII/018/00, CONACYT, Mexico, 2000, Mx$86,000 (approx. US$9,000).
"*Parallel computing and multiple-valued logic*",
NSERC, 1997, 1998, 1999, 2000, $18.500/year
"*Algebra and algorithms of set-valued logic*"
Ontario-Quebec exchange grant, 1996, $1.000; 1997, $1800; 1998, $1,500.
"*High Performance Computing Access Support Network (HPCNet)*"

Principal investigator: B.W. Unger (Univ. of Calgary), 47 co-applicants from 11 universities
NSERC 1996, 1997, 1998, $175.000/year

"*Fundamental algorithms for enhanced meshes and BSR parallel models*" (with S. Olariu)
NATO Collab. Res. Grant, July 1995, US$6300; September 1997: US$2800

"*Parallel and geometric algorithms and multiple-valued logic*",
NSERC, 1994, 1995, 1996, $13.000/year

"*Algebra and Algorithms*"
with Algorithms Laboratory: Rival, Stojmenovic, Urrutia, Zaguia
Ontario-Quebec exchange grant, 1993, 1994, $3.000/year

"*Computational geometry, order and parallelism*"
with Algorithms Laboratory: Rival, Stojmenovic, Urrutia, Zaguia
Faculty Development Fund (equipment), May 1993, $5.000

"*Problems in digital geometry*" (with R. Melter)
NATO Collab. Res. Grant, Nov. 1990, US $7200; Apr. 1993, US $6500.

"*Parallel, geometric and combinatorial algorithms and multiple-valued logic*",
NSERC, 1991, 1992, 1993, $20.000/year

"*Parallel algorithms*",
Univ. of Ottawa, Fac. Sci. Dev. Fund, Nov.1988, $5000; Nov. 1990, $1150.

"*Parallel, geometric and combinatorial algorithms and multiple-valued logic*",
NSERC, 1989, 1990, $17.000/year

"*Basis enumerations in many-valued logic*"
Univ. Ottawa, Equip. Res. Grant, Oct. 1988, $7000.

Research:

Author or co-author of over 200 different research papers. Research is generally on the design and analysis of algorithms, with scientific, engineering and practical applications. Current main research areas are ad hoc, sensor and cellular wireless networks and mobile computing. Research interest includes interconnection networks, parallel algorithms, computational geometry, combinatorial algorithms, combinatorics, multiple-valued logic, neural networks, genetic algorithms, data structures, graph theory, computational chemistry, and computer science education.

Published over 120 different articles jointly with graduate students.

Supervised or co-supervised 18 Ph.D. and 32 M.Sc. students

Supervision:

Ph.D. theses: 5 successfully completed, 47 published joint articles with them (including collaboration after thesis defense)

Johnson Kuruvila, April 2006 (at Univ. Ottawa), co-supervised with Amiya Nayak: Routing Algorithms for Ad hoc and Sensor Networks with a Realistic Physical Layer

Felipe Contreras, 2002 (at Univ. Ottawa), co-supervisor: Jorge Urrutia: Uniform randomized routing algorithms

Alioune Ngom, 1998 (at Univ. Ottawa): Synthesis of multiple-valued logic functions by neural networks

Jovisa Zunic, 1991 (at Univ. Novi Sad, Serbia), Ph.D. in mathematics, co-supervisor: Dragan Acketa: Computational geometry on a grid

Masahiro Miyakawa, 1988 (at Osaka University, Japan): Classifications and basis enumerations in many-valued logic algebras.

Master's theses: 25 successfully completed, 24 published articles with 18 of them (papers with Ngom and Zunic counted under Ph.D.)

at the University of Ottawa (19):

Hanna Kalosha, 2008: Select and protest based beaconless georouting with guaranteed delivery in wireless sensor networks.

Milenko Jorgic, 2007: Localized criteria for detection of critical nodes and links and *k*-connectivity in ad hoc networks.

Kaining Wang, 2005 (joint supervision with Ramiro Liscano): Context-based coalition access control for ubiquitous computing.

Bosko Vukojevic, 2005: Depth first search and position based routing in ad hoc and sensor wireless networks.

Francisco Javier Ovalle Martinez, 2005: Area based beaconless broadcasting in ad hoc and sensor networks.

Hong Guo (M.Sc. EE p.), 2005: Broadcasting schemes in ad hoc networks.

Xiejun Xu, 2005: Time-distance based location management schemes for personal communication networks.

Hong Zheng, 2004: RFID tag identification.

Heyun Jia, 2004: Position based approach for predicting delays and routing over Internet.

Yanli Deng, EE, 2004: Partial Delaunay triangulations based routing, address configuration and data-centric storage in ad hoc networks.

Jamil Shaikh, 2004: Energy efficient dominating set based topology maintenance in ad hoc wireless networks.

Aleksandar Micic, 2003: Initialization protocols for TDMA in single-hop wireless networks

Susanta Datta, 2001: Internal nodes and shortcut based, localised and power aware routing with guaranteed delivery in wireless networks.

Mahtab Seddigh, 2001: Broadcasting in wireless networks

Xu Lin, 2000: GPS based localized routing algorithms for wireless networks

Nidhi Kapoor, 1999: Pagenumber problem

Mounir Belbaraka, 1996: Algorithms for generating and coding B-trees

Hassan Elhage, 1995: Parallel algorithms for generating combinations

Alioune Ngom, 1995: Set logic foundation of carrier computing

Antoine Zoghbi, 1993: Algorithms for generating integer partitions

at the University of Birmingham, UK (2)

Sina Badiei, Selecting Active Readers in RFID Systems, MEng, EECE, May 2008.

Dimitris Georgiou, Randomness in Georouting with Realistic Physical Layers in

Wireless Sensor Networks, MEng, EECE, May 2008.

at Univ. Novi Sad, Serbia (1)

Jovisa Zunic (Math.), 1989, M.Sc. in mathematics, co-supervisor: Dragan Acketa: Algorithms on periodic grids

at the Universidad National Autonoma de Mexico, Mexico (1)

Tania Pérez Martinez, 2005, IIMAS, M.Sc in Engineering (Computing), co-supervisor: Julio Solano: Busqueda y transmission global en systems de redes entre iguales e Internet empleando arboles locales de expansion minima

at the Technical University of Denmark (1)

Zhendong Ma, 2005, Research Centre COM, M.Sc. in Telecommunications, co-supervisor: Lars Staalhagen: Reactive routing with a realistic physical layer for ad hoc and sensor wireless networks.

Undergraduate theses/projects, and/or Research with undergraduate students: Approximately one each year at the University of Ottawa; three at the UNAM, Mexico. Published 5 articles with 4 such students:

Mohit Chawla (B.Sc., IIT, Guwahati, India),
Mark Russell (B.Sc., Univ. Ottawa, Canada, two journal papers),
Oscar Escalante, Francisco Ovalle-Martinez (B.Eng., UNAM, Mexico).

PostDoctoral Fellows

Stephan Ruehrup (Padernborn, Germany), 2007.
Hai Liu (Hong Kong, China), 2007-8.
Arnaud Casteigts (Bordeaux, France), 2008.

Co-supervision (joint publications are part of their theses, in each case):

Ph.D. theses: 14 theses

Xu Li, Carleton University, Ottawa, Canada (supervisor: Nicola Santoro), PhD., Improving area coverage by mobile sensor networks. October 2008.

Dandan Liu, Wuhan University, China, Ph.D., Information Dissemination By Using Quorum Methods in Ad Hoc and Sensor Networks (supervisor: Xioahua Jia), May 2008.

Alaa Eddien Awad Abdallah, Ph.D., Concordia University, Computer Science and Software Engineering Department, Montreal, Canada (supervisors: Thomas Fevens, Jaroslav Opatrny), May 2008, Position-based routing algorithms for three-dimensional ad hoc networks.

Antoine Gallais, Université des Sciences et Technologies de Lille, France, June 2007, Ph.D. (supervisors: Jean Carle, David Simplot-Ryl): Ordonnancement d'activité dans les réseaux de capteurs: l'exemple de la couverture de surface.

Juan A. Sanchez, Universidad de Murcia, Departamento de Ingenieria de la Informacion y las Comunicaciones, Spain, September 2006, Ph.D. (supervisor: Pedro M. Ruiz): Algoritmos de Encaminamiento Multicast con reducido consumo energetico para Redes de Sensores

Inalambricos.

François Ingelrest, Université des Sciences et Technologies de Lille, France, June 2006, Ph.D. (supervisor : David Simplot-Ryl): Protocoles localisés de diffusion et économie d'énergie dans les réseaux ad hoc et de capteurs.

Hui Liu, Topology control, routing protocols, and performance evaluation for mobile wireless ad hoc networks, Ph.D. thesis (supervisor: Yi Pan), Georgia State University, August 2005.

Anand Prakash Ruhil, School of Computer and Systems Sciences, Jawaharlal Nehru University, New Delhi, India, 2005, Ph.D. (supervisor: D.K. Lobiyal): Position based localized routing in mobile ad hoc network.

Michael Hauspie, Université des Sciences et Technologies de Lille, France, 2005, Ph.D. (supervisor : David Simplot-Ryl): Contributions à l'étude des gestionnaires de services ditribués dans les réseaux ad hoc.

Julien Cartigny, Université des Sciences et Technologies de Lille, France, 2003, Ph.D. (supervisor : David Simplot-Ryl): Contribution à la diffusion dans les réseaux ad hoc.

Guangbin Fan, The University of Alabama, Tuscaloosa, USA, 2003, Ph.D. (supervisor : Jingyuan Zhang): Geometric Optimization Issues in Wireless Networks.

Jean Carle, Universite de Picardie – Jules Verne, Amiens, France, 2000, Ph.D. (supervisor : Jen-Frederic Myoupo): Etude des proprietes des reseaux d'interconnexion de type nid d'abeilles.

Patrick Morin, Carleton University, Ottawa, 2000, Ph.D. (supervisor: Prosenjit Bose): Routing in geometric and wireless networks.

Ke Qiu, Queen's Univ., Kingston, 1992, Ph.D. (supervisor: Selim G. Akl): The star and pancake interconnection networks, properties and algorithms

Master's theses: 7 theses

Yassine Daadaa, University of Ottawa, Canada, November 2007, M.Sc. (supervisor: Nejib Zaguia), Bluetooth scatternet formation of wireless devices based on maximal independent sets.

Adnan Afsar Khan, University of Ottawa, Canada, May 2007, M.Sc. (supervisor: Nejib Zaguia): Parameterless broadcasting in static to highly mobile wireless ad hoc, sensor and actuator networks.

Geetali Dutta Vidyarthi, University of Windsor, Windsor, Canada, 2003, M.Sc. (supervisor: Alioune Ngom): Integrated channel assignment and power control in wireless mobile networks using evolutionary strategy.

Bing Wu, Florida Atlantic University, Boca Raton, USA, 2002, M.Sc.(supervisor: Jie Wu): Power-Aware Broadcasting and Activity Scheduling in Ad Hoc Wireless Networks

Pedro Eduardo Villanueva Peña, The University of Sheffield, UK, 2002, M.Sc. (supervisor: Rob Edwards): A scalable quorum based location update scheme for routing in ad-hoc wireless networks.

Ming Gao, Florida Atlantic University, Boca Raton, USA, 2001, M.Sc. (supervisor: Jie Wu): Dominating set based routing in ad hoc wireless networks.

John Calvert, Queen's Univ., Kingston, 1991, M.Sc. (supervisor: Selim G. Akl): The parallel generation of permutations and derangements.

Joint publications with graduate students outside their theses:
(28 students)
Carmen M. Yago (University of Murcia, Spain) (thesis in progress)
Eric Karmouch, Shantanu Das (University of Ottawa)
Dimitrios Koutsonikolas (Purdue University) (thesis in progress)
Saumitra Das (Purdue University)
Huseyin Ozgur Tan (Bilkent University, Ankara, Turkey). (thesis in progress)
Furuzan Atay (Carleton University, Ottawa, Canada)
Ning Li (Univ. Illinois, Chicago, USA)
Hannes Frey (Univ. Trier, Germany)
Ashraf Wadaa (Old Dominion, Norfolk, and Intel Corporation, Hillsboro, Oregon, USA)
Qingwen Xu (Old Dominion Univ., Norfolk, USA)
Yu Wang (Illinois Institute of Technology, Chicago, USA).
Francisco Ovalle-Martinez (Univ. Ottawa, paper outside master thesis)
Fei Dai (Florida Atlantic Univ., Boca Raton, USA).
Mouhsine Lakshdisi (Univ. Ottawa, Canada)
Geng Chen (Univ. Ottawa, Canada).
Thibault Duboux (Lab. Inf. Par., Ecole Nor. Sup. de Lyon, France)
Peter Egyed (Comp.Sci., McGill Univ., Montreal, Canada)
V. Bokka (Comp. Sci., Old Dominion Univ., Norfolk, VA, USA),
H. Gurla (Comp. Sci., Old Dominion Univ., Norfolk, VA, USA).
Dragan Masulovic, Ljubomir Jerinic, Lidija Comic, Marija Kulas (Univ. Novi Sad, Serbia).
Rade Doroslovacki, Zoran Budimac, Mirjana Ivanovic, Andreja Tepavcevic (Univ. Novi Sad, Serbia).

in progress: supervision of about ten graduate students.

Articles written with graduate students (status at time of writing articles):
10 book chapters (out of 29)
42 full journal article (out of 94); 8 articles in national journals (out of 25)
6 short articles (out of 13)
22 conference articles (out of 37); 5 articles in national conferences (out of 14).

Among co-authors of papers are (over 100 co-authors with Ph.D. from 24 countries, and a number of their graduate students):
(countries of co-authors: France, USA, Switzerland, Canada, Germany, India, Mexico, Japan, UK, Spain, China, Hong Kong, Turkey, Serbia, Czech Republic, Denmark, Australia, Norway, Hungary, Korea, Poland, Finland, Latvia, Slovenia).

(102 names listed) :
David Simplot-Ryl, Jean Carle, Isabelle Ryl (LIFL, Universite de Lille, France)
Julien Iguchi-Cartigny (University of Limoges, France)
Shantanu Das, Department of Computer Science, ETH Zurich, Zurich, Switzerland
Hai Liu, Dept of Computer Science, Hong Kong Baptist University, Hong Kong SAR
Stephan Olariu (Comp. Sci., Old Dominion Univ., Norfolk, VA, USA),
Pedro Ruiz Martinez, University of Murcia, Spain.
Dan A. Simovici (Math.CS., Univ. of Massachusetts at Boston, USA),
Jie Wu (Comp.Sci & EE, Florida Atlantic University, Boca Raton, FL,USA),

Xiang-Yang Li (Computer Science, Illinois Institute of Technology, Chicago, USA),
Jennifer C. Hou, University of Illinois, Urbana, USA,
Xiaohua Jia, City University of Hong Kong
Y. Charlie Hu, Saumitra Das, ECE, Purdue University, USA
Yi Pan, Georgia Institute of Technology, USA
Ibrahim Korpeoglu, Bilkent University, Ankara, Turkey
Yu Wang (University of Charlotte, USA),
Silvia Giordano (SUPSI-DIE, CH-6928 Manno, Switzerland),
Hai Liu, Stefan Ruehrup (postdocs in SITE, Univ. Ottawa)
Amiya Nayak, Nejib Zaguia, Miodrag Bolic, Lucia Moura (SITE, University of Ottawa),
Nishith Goel, Cistel Technology Inc., Ottawa
Kalai Kalaichelvan, EION Inc., Ottawa,
Hannes Frey (IMADA, University of Southern Denmark, Odense, Denmark),
Francois Ingelrest (EFFL, Zurich, Switzerland),
D.K. Lobiyal (Jawaharlal Nehru University, New Delhi, India),
Jorge Urrutia (Mathematics Institute, National University of Mexico, Mexico D.F., Mexico),
Selim G. Akl, Henk Meijer (Comp.Inf.Sci., Queen's Univ., Kingston, Canada),
Prosenjit Bose (School of Computer Science, Carleton University, Ottawa),
Fabian Garcia, Julio Solano, Pedro Acevedo (IIMAS, UNAM, Mexico City, Mexico),
Alioune Ngom (Comp. Sci., Univ. of Windsor, Windsor, Ontario, Canada),
Limin Xiang and Kazuo Ushijima (Comp. Sci. Comm. Eng., Kyushu Univ., Fukuoka, Japan),
Jovisa Zunic (Comp. Sci. Dept, Cardiff University, Cardiff, U.K.),
Jingyuan Zhang (Dept. of CS., University of Alabama, Tuscaloosa, USA),
Veljko Milutinovic (EE, University of Belgrade, Serbia),
Justin Lipman (Alkatel, Shangai, China),
J.F. Myoupo, D. Seme (Univ. J. Vernes, Amiens, France),
Robert A. Melter (Math. Dept., Long Island University, Southampton, NY, USA),
David Gries (Comp. Sci. Dept., Cornell Univ., Ithaca, USA),
David J. Evans (CSD, Univ. of Techn., Loughborough, England),
Masahiro Miyakawa (Electrotechn. Lab., Tsukuba, Japan),
Ivo G. Rosenberg (Math.-Stat., Univ. of Montreal, Canada),
Corina Reischer (Dept. Math. & Comp. Sci., Univ. of Quebec at Trois-Rivieres, Canada),
Zoran Obradovic (Center Inf. Society & Techn., Temple University, Philadelphia, PA, USA),
Hazel Everett (Comp. Sci., University of Quebec, Montreal, Canada),
Pavel Valtr (Applied Mathematics, Charles University, Prague, Czech Republic),
Sue Whitesides (Computer Science, McGill Univ., Montreal, Canada),
Reinhard Klette (Computer Vision, Technical University, Berlin, Germany),
Albert Zomaya (Univ. of Western Australia, Perth, WA, Australia),
Laxmi P. Gewali (Comp. Sci. Dept., Univ. of Nevada, Las Vegas, USA)
J. Brunvoll, B.N. Cyvin & S.J.Cyvin (Physical Chemistry, Univ. of Trondheim, Norway)
Jim L. Schwing (Dept. Comp. Sci., Central Washington University, Ellensburg, WA, USA)
Borivoje Djokic (Univ. of Miami, Coral Gables, USA),
Jim Ruppert (NASA Ames Research Center, Moffett Field, CA, USA)
Godfried Toussaint (Comp.Sci., McGill Univ., Montreal, Canada)
Binay Bhattacharya (Comp.Sci., Simon Fraser Univ., Burnaby, BC, Canada)
Janos Demetrovics & L. Ronyai (Hungarian Acad. of Sci., Budapest, Hungary)
T. E. Boult (Columbia Univ., New York; Lehigh Univ., Bethlehem, PA, USA)
F. Skorina (Key Technologies, Inc., Walla Walla, WA, USA)

D. Bhagavathi (Comp. Sci., Southern Illinois Univ. Edwardsville, IL, USA),
Chul E. Kim (Washingtom State Univ., Pullman, USA and CSD, POSTECH, Pohang, Korea)
Ratko Tosic, S. Crvenkovic, M. Stojanovic, Julijana MIrcevski (Math. Inst., Univ. Novi Sad, Serbia),
Jovica Stanojlovic (Bank of Novi Sad, Serbia).
Vojislav Stojkovic (Univ. Belgrade, Serbia).
N.M. Stojanović, E.I. Milovanović, T.. Milovanović, T.I. Tokić (Univ. Nis, Serbia)
Tomasz Szymacha (Warsaw University, Poland),
Nicola Santoro, Frank Dehne & J.-R. Sack (Comp. Sci. Carleton Univ., Ottawa, Canada),
Halim Yanikomeroglu (EE, Carleton University, Ottawa, Canada),
Frederick N. Springsteel (CSD, Univ. of Missouri, Columbia, USA),
Eljas Soisalon-Soininen (Comp. Sci., Univ. Helsinki, Finland),
Dilip Sarkar (Math. Comp. Sci., Univ. Miami, Miami, USA),
Dietlinde Lau (Math. Dept. Wilh.-Pieck-Univ. Rostock, Germany),
Teruo Hikita (Math. Dept. Metrop. Univ., Tokyo, Japan),
Hajime Machida (CSD, Univ. Electro-comm., Tokyo, Japan),
M. A. Langston (CSD, Wash. State Univ., Pullman, USA),
Jurek Czyzowicz (Comp.Sci., Univ. of Hull, Hull, Canada)
Ke Qiu (School Comp. Sci., Acadia University, Wolfville, Nova Scotia, Canada)
Kyoko Ikeda (Kanto Gakuin Univ., Yokohama, Japan),
R. Freivalds (Comp. Center, Latvian State Univ., Riga, Latvia),
Satoshi Sekiguchi, T. Mishima (Electr. Lab., Tsukuba, Japan),
Ishiro Semba (Ibaraki University, Mito-shi, Japan),
Aleksandar Jurisic (Math. Institute, Univ. of Ljubljana, Slovenia).
Quoc T. Pham (Nortel Networks, Ottawa, Canada).

Professional activities:

- **Books edited:**

E4. **Handbook of Applied Algorithms: Solving Scientific, Engineering and Practical Problems** (Amiya Nayak and Ivan Stojmenovic, eds.), Wiley-IEEE Press, March 2008; ISBN: 978-0-470-04492-6, hardcover, 560 pages.
E3. **Handbook of Sensor Networks: Algorithms and Architectures**, (I. Stojmenovic, ed.), John Wiley & Sons, September 2005; ISBN-13 978-0-471-68472-5; ISBN-10 0-471-68472-4, 550 pages, hardcover.
E2. **Mobile Ad Hoc Networking** (S. Basagni, M. Conti, S. Giordano, I. Stojmenovic, eds.), IEEE Press/Wiley, July 2004; ISBN 0-471-37313-3, hardcover, 480 pages.
E1. **Handbook of Wireless Networks and Mobile Computing** (I. Stojmenovic, ed.), John Wiley & Sons, February 2002; ISBN 0-471-41902-8, 630 pages, hardcover. *Editor's choice, IEEE networks column, July 2002, (Ioannis Nikolaidis, ed.).*

- **Journal editor-in-chief and founder:**

Editor-in-Chief and founder of the *Ad Hoc & Sensor Wireless Networks: An International Journal* (Old City Publishing) since 2004 (volume 1 scheduled for 2005), http://www.oldcitypublishing.com/AHSWN/AHSWN.html .

Editor-in-Chief and founder of *International Journal of Parallel, Emergent, and Distributed Systems* (Taylor and Francis Group) since 2004, www.ijpeds.net or www.tandf.co.uk/journals/titles/10637192.html.

Editor-in-Chief and founder of the *Journal of Multiple-Valued Logic and Soft Computing* (Old City Publishing) http://www.oldcitypublishing.com/MVLSC/MVLSC.html (with D.A. Simovici), since 1996. Current title and publisher since 2002; 1996-2002 published as *Multiple-Valued Logic, an International Journal* (Taylor and Francis Group).

- **Journal editor:**

Editorial Board Member of *IEEE Transactions on Parallel and Distributed Systems*, since 2003, http://www.computer.org/tpds/ .

Editorial board member of *ACM/SPRINGER Wireless Networks (WINET)* 2005-2008.

Associate Editor for *Telecommunication Systems,* Springer, 2005.

Editorial Board member of the journal *Parallel Processing Letters* (World Scientific, An International Publisher) since 1991, http://ejournals.wspc.com.sg/ppl/ppl.html .

Editorial board member of *International Journal of Sensor Networks* (IJSNet) http://www.inderscience.com/ijsnet published by Inderscience Publishers, since 2006.

Editorial board member of *International Journal of High Performance Computing and Networking* (IJHPCN) published by Inderscience Publishers, since 2003, https://www.inderscience.com/ijhpcn .

Editorial board member of *International Journal of Wireless and Mobile Computing* (IJWMC) published by Inderscience Publishers, since 2003, https://www.inderscience.com/ijwmc .

Editorial board member of *International Journal of Distributed Sensor Networks* (IJDSN) published by Taylor and Francis Group, since 2004, http://www.tandf.co.uk/journals/titles/15501329.asp .

Editorial board member of *Journal of Internet Engineering* (since 2006).

Editorial board member of *EURASIP Journal on Wireless Communications and Networking* http://www.hindawi.com/journals/wcn/index.html , since 2005.

Associate editor of *International Journal of Computers and Applications* (since 2003), http://www.actapress.com/ .

Editorial board member of *International Journal of Pervasive Computing and Communications (JPCC)* (Troubador Publishing Ltd) since 2004, http://www.troubador.co.uk/jpcc/ .

Editorial board member of the journal *Tangenta* (mathematics and computer science for high school students in Serbia) 1995-2002, http://www.matf.bg.ac.yu/dms/ .

Associate Editor of the journal *Parallel Algorithms and Applications* (Taylor and Francis Group) (1992-2004); Regional Editor for North America in 2004 (journal continued under IJPEDS title), http://www.tandf.co.uk/journals/titles/10637192.html.

- **Journal Guest editor for special issues:**

Journal of Computer Science and Technology JCST, special issue on Mobile Ad Hoc and Sensor Systems (with Silvia Giordano), Vol. 23, No. 3, May 2008, 13 papers, 175 pages; preface 2p.

IEEE Transactions on Parallel and Distributed Systems, (with Stephan Olariu and David Simplot-Ryl), vol. 17, no. 9, 2006 (7 articles, 897-986); preface 897-898.

IEEE Transactions on Parallel and Distributed Systems, (with Stephan Olariu and David Simplot-Ryl), vol. 17, no. 4, 2006 (7 articles, 289-388); preface 289-291.

International Journal of Distributed Sensor Networks (T&F), special issue on Data Communication and Topology Algorithms for Sensor Networks (with Stephan Olariu and David Simplot-Ryl), vol. 1, issue 3-4, 2005 (5 articles, 91 pages).

Ad Hoc Networks (Elsevier), special issue on Data communication and topology control in wireless ad hoc networks (with David Simplot-Ryl), vol. 3, no. 5, Sept. 2005, (13 articles, 172 pages).

Cluster Computing (Kluwer), special issue on Ad Hoc Networks, Volume 8, Numbers 2/3, April/July 2005 (12 articles, 113 pages).

IEEE Network, special issue on Ad Hoc Networking: Data Communications and Topology Control, July/August 2004 (with David Simplot), Vol. 18, No. 4, 2004 (8 articles plus introduction, 1-56), http://www.comsoc.org/pubs/net/ntwrk/special.html .

IEEE Computer Magazine, special issue on Ad hoc networking (with Jie Wu), Vol. 37, No. 2, February 2004 (6 paper plus introduction, 29-74), http://www.computer.org/computer/ .

Wireless Communications and Mobile Computing (Wiley), Volume 3, issue 2, March 2003 (10 papers, 290 pages), special issue on Algorithmic, geometric, graph, combinatorial, and vector aspects of wireless networks and mobile computing, http://www3.interscience.wiley.com/cgi-bin/issuetoc?ID=104085948 .

International Journal of Foundations of Computer Science (World Scientific), Volume 14, Number 2, April 2003 (10 papers, approx. 350 pages), special issue on Wireless networks (with S. Olariu), http://www.cs.ucsb.edu/~ijfcs/ .

Telecommunication Systems (Kluwer), Volume 22, Numbers 1-4, January-April 2003 (19 papers, 354 pages), special issue on Mobile computing and wireless networks (with S. Olariu) http://www.kluweronline.com/issn/1018-4864 .

Telecommunication Systems (Kluwer), Volume 18, issue 1-3, September 2001 (15 papers, 287 pages), special issue on Mobile computing and wireless networks (with S. Olariu). http://www.kluweronline.com/issn/1018-4864

Parallel Algorithms and Applications, Vol. 2, Numbers 1-2, 1994 (9 papers, 148 pages), special issue on the Parallel Algorithms minitrack of HICSS-26.

- **Founder, workshops and conferences:**

Research Workshop on Wireless Computing and Sensor Networks, Havana, Cuba, April 23-May 4, 2007.

Workshop on Localized Algorithms and Protocols for Wireless Sensor Networks LOCALGOS in conjunction with the IEEE International Conference on Distributed Computing in Sensor Systems (DCOSS 2007), Santa Fe, NM, USA, June 18-20, 2007.

Workshop on Localized Communication and Topology Protocols for Ad hoc Networks LOCAN, at the 4th IEEE International Conference on Mobile Ad-Hoc and Sensor Systems, MASS 2007, Pisa, October 12, 2007; Vancouver, Oct. 9-12, 2006.

Workshop on Wireless Ad hoc and Sensor Networks (WWASN2007), at the IEEE International Conference on Distributed Computing Systems ICDCS: Toronto, Canada, June 25, 2007; Lisboa, Portugal, July 4-7, 2006; June 10, 2005, Columbus, Ohio, USA, March 23-26, 2004, Tokyo, Japan.

First International Conference on ***Integrated Internet Ad hoc and Sensor Networks InterSense,*** *Nice, France, May 29-31, 2006,* http://www.intersense.org .

Research Workshop on Ad Hoc Networks, Cocoyoc, Mexico, February 15-21, 2003.

Minitrack on Mobile Computing and Wireless Networks: HICSS-33, Maui, Hawaii, Jan. 4-7, 2000, HICSS-35, Big Island of Hawaii, Jan. 2002: SSGRR, L'Aquila, Italy, July 31-August 6, 2000; ICPP, Toronto, Aug. 21-24, 2000.

Minitrack on Parallel Algorithms, HICSS-26 Kauai, Hawaii, Jan. 5-8, 1993.

- **Chairing conferences and workshops (with handling submissions):**
  (29 events; 26 of them since 2000; 7 in 2005; 4 in 2006; 3 in 2007; 4 in 2008)

Program vice-chair, 'wireless networks' track, at the 2008 Int. Conf. on Embedded and Ubiquitous Computing EUC, December 17-21, 2008, Shanghai, China http://epcc.sjtu.edu.cn/euc2008 .

Program co-chair, IFIP Conference on Wireless Sensors and Actor Networks (WSAN 08) July 14t-15, 2008, Ottawa, Ontario, Canada, www.site.uottawa.ca/WSAN08 .

Program co-chair, Mobile and Wireless Networks Track, 19th IEEE International Symposium on Personal, Indoor and Mobile Radio Communications (PIMRC), 14-18 September 2008, Cannes, French Riviera, France, www.pimrc2008.org .

Program co-chair, 7th International Conference on AD-HOC Networks & Wireless, Sept. 10-12, 2008, Nice, France, http://www-sop.inria.fr/mascotte/adhocnow .

Program co-chair, 4th IEEE International Conference on Mobile Ad-hoc and Sensor Systems, October 8-12, 2007, Pisa, Italy http://cnd.iit.cnr.it/mass2007 .

Program co-chair, Int. Symp. on Parallel and Distributed Processing and Applications ISPA, Niagara Falls, August 21-24, 2007 www.cs.umanitoba.ca/~ispa07 .

Program co-chair, The IEEE 20th International Conference on Advanced Information Networking and Applications AINA-07, Niagara Falls, May 21-23, 2007 www.aina-conference.org/2007/.

Program co-Chair of the 2nd International Conference on Mobile Ad-hoc and Sensor Networks (MSN), Dec.13-15 2006, Hong Kong www.comp.polyu.edu.hk/msn06 .

Program co-chair, Sixth International Workshop on Wireless Local Networks (WLN), Tampa, Florida, in conjunction with the 31st IEEE Conference on Local Computer Networks (LCN), Nov 14-17, 2006 www.cse.unsw.edu.au/~wln2006/.

Program co-chair, Workshop on Wireless Ad hoc and Sensor Networks WWASN2006, in conjunction with the IEEE 26th Int. Conf. Distrib. Comp. Syst. ICDCS, Lisboa, Portugal, July 4-7, 2006 http://www.cs.umanitoba.ca/~softart/WWASN2006.html .

Steering Committee Vice-Chair, and Program Committee Chair, First International Conference on Integrated Internet Ad hoc and Sensor Networks InterSense**,** Nice, France, May 29-31, 2006, http://www.intersense.org .

Program Vice Chair of the 1st International Conference on Mobile Ad-hoc and Sensor Networks (MSN), 13-15 Dec 2005, Wuhan, China http://www.cs.cityu.edu.hk/~MSN .

Program vice-chair (for Wireless Communication), International Conference on Embedded and Ubiquitous Computing EUC-05, Nagasaki, Japan, December 6-9, 2005, http://euc2005.he.nias.ac.jp.

Program co-chair, Workshop on Wireless Local Networks (WLN), in conjunction with IEEE Local Computer Networks conference, Sydney, Australia, November 2005.

Program vice-chair (for Algorithms), Int. Symp. on Parallel and Distributed Processing and Applications ISPA, Nanjing University, China, Nov. 2-5, 2005. http://keysoftlab.nju.edu.cn/ispa2005 .

Program co-chair, Symposium on Ad Hoc Networks, as part of IEEE WirelessCom 2005, Kaanapali Beach, Maui, Hawaii, USA, June 13-16th, 2005.

Co-chair (with David Simplot), International Workshop on Wireless Ad Hoc Networking (WWAN 2005), in conjunction with IEEE Int. Conf. on Distributed Computing and Systems, June 10, 2005, Columbus, Ohio, USA, www.lifl.fr/RD2P/WWAN2005 .

Technical Program Committee Co-Chair, IEEE IFIP Second Annual Conference on Wireless On-demand Network Systems and Services WONS, St. Moritz, Switzerland, January 19-21, 2005.

Program Vice-Chair (for Algorithms and Topology), The 1st IEEE International Conference on Mobile Ad-hoc and Sensor Systems MASS-2004, October 25-27, 2004, Fort Lauderdale, Florida, USA http://www.ececs.uc.edu/~cdmc/mass .

Co-chair (with David Simplot), International Workshop on Wireless Ad Hoc Networking (WWAN 2004), in conjunction with IEEE Int. Conf. on Distributed Computing and Systems, March 23-26, 2004, Tokyo, Japan, www.lifl.fr/RD2P/WWAN2004 .

Co-chair (with Jingyuan Zhang), Workshop on Mobile and Wireless Networks, in conjunction with IEEE Int. Conf. on Distributed Computing and Systems, May 19-22, 2003, Providence, Rhode Island, USA.

Minitrack Coordinator (with Jie Wu) for specific topics: Routing in Wireless and Internet Networks, in: Software Technology Track of the 36th Hawaii International Conference on System Sciences HICSS-36, Big Island of Hawaii, Hawaii, Jan. 4-7, 2003.

Vice Program Committee chair, Wireless and Mobile Computing track, Int. Conf. on Parallel and Distributed Systems, Taiwan, Dec. 17-20, 2002.

Topic chairman, Mobile Computing and Wireless Networks track at the Int. Conf. on Advances in Infrastructure for Electronic Business, Science, and Education on the Internet, SSGRR, L'Aquila, Italy, July 31-August 6, 2000.

Wireless and Mobile Computing Workshop organizer (with Stephan Olariu) at Int. Conf. on Parallel Processing ICPP, Toronto, Aug. 21-24, 2000;

Minitrack Coordinator (with Stephan Olariu) for specific topics: Mobile Computing and Wireless Networks, in: Software Technology Track of the 33th Hawaii International Conference on System Sciences HICSS-33, Maui, Hawaii, Jan. 4-7, 2000, and HICSS-35, Big Island of Hawaii, Jan. 2002.

Conference co-chair for 10th Conf. on High Performance Computing, Ottawa, 5-7 June, 1996.

Minitrack Coordinator for specific topics: Parallel Algorithms, in: Parallel and Distributed Systems: from Theory to Practice, for the Software Technology Track of the 26th Hawaii International Conference on System Sciences HICSS-26 Kauai, Hawaii, Jan. 5-8, 1993.

Stream Chair (C: Concurrency and Parallelism) of International Conference on Computing and Information ICCI '92, Toronto, Ontario, Canada, May 28-30, 1992.

- **Conferences (organizing, advising, chairing without handling submissions):**

General co-chair of the 6th International Workshop on Wireless Ad hoc and Sensor Networking (WWASN 2009), at the IEEE Int. Conference on Distributed Computing Systems (ICDCS 2009), Montreal, Canada, June 22, 2009.

Vice General Chair, IEEE International Conference on Distributed Computing in Sensor Networks DCOSS, Marina Del Ray, California, USA, June 7-10, 2009 www.dcoss.org .

Workshop Chair, The 6nd IEEE International Conference on Mobile Ad-hoc and Sensor Systems MASS, Oct. 5-9, 2009, Macau, China. www.cs.cityu.edu.hk/mass09

Organizing Committee co-chair, ROGICS'08, International Conference on Relations, Orders and Graphs: Interaction with Computer Science, 12-17 May 2008, Mahdia, Tunisia, www.rogics.com .

General co-chair (and Advisory Committee member), The Second International Conference on Sensor Technologies and Applications, SENSORCOMM 2008, IARIA, August 25-31, 2008 - Cap Esterel, France, www.iaria.org/conferences2008/ComSENSORCOMM08.html

Advisory Committee, The Second International Conference on Sensor Technologies and Applications, SENSORCOMM 2008, August 25-31, 2008 - Cap Esterel, France.

General co-chair of the Fifth Workshop on Wireless Ad hoc and Sensor Networks (WWASN2008), at the IEEE Int. Conference on Distributed Computing Systems (ICDCS 2007), Beijing, China, June 20, 2008 www.cs.umanitoba.ca/~softart/WWASN2008.html .

Workshops Chair, ACM Mobihoc, Hong Kong, China, May 26-30, 2008. www.sigmobile.org/mobihoc/2008 .

Publicity co-chair, 22nd IEEE International Parallel & Distributed Processing Symposium IPDPS, Miami - April 14-18, 2008, www.ipdps.org .

Workshop general co-chair of LOCAN: The Third International Workshop on Localized Communication and Topology Protocols for Ad hoc Networks, http://ants.dif.um.es/locan2007 at the 4th IEEE International Conference on Mobile Ad-Hoc and Sensor Systems, MASS 2007, (http://cnd.iit.cnr.it/mass2007 /), Pisa, October 12, 2007.

General Chair, The First International Workshop on Localized Algorithms and Protocols for Wireless Sensor Networks LOCALGOS 2007, In conjunction with the IEEE International Conference on Distributed Computing in Sensor Systems (DCOSS 2007), Santa Fe, NM, USA, June 18-20, 2007 http://libra.dif.um.es/localgos07 www.dcoss.org/dcoss07 .

Steering Committee member of the First IFIP Wireless Sensor and Actor Networks (WSAN 2007) September 24-26 2007, Albacete, Spain www.i3a.uclm.es/wsan07 .

Advisory Committee member, International Conference on Sensor Technologies and Applications SENSORCOMM 2007 Oct. 14-20, 2007 - Valencia, Spain www.iaria.org/conferences2007/CfPSENSORCOMM07.html .

Steering Committee member of the 12th IFIP Personal Wireless Communications Conference (PWC'07), September 12-14, 2007, Prague, Czech Republic http://pwc07.cvut.cz .

Steering Committee member of the International Conference on Mobile Ad-hoc and Sensor Networks (MSN), Dec. 2007, Beijing, China.

Advisory Committee member, 4th International Conference on Ubiquitous Intelligence and Computing (UIC-07) www.uic-conference.org/2007, Hong Kong, China, July 11-13, 2007.

Workshops Co-Chair, ACM Mobicom and Mobihoc, Montreal, Sep 09-14, 2007.

General co-chair of the Fourth Workshop on Wireless Ad hoc and Sensor Networks (WWASN2007), at the IEEE International Conference on Distributed Computing Systems (ICDCS 2007), Toronto, Canada, June 25, 2007.

Program co-chair, Research Workshop on Wireless Computing and Sensor Networks, Havana, Cuba, April 23-May 4, 2007.

Advisory Committee member, Scientific workshop at RFID show, Lille, France, November 2006 www.rfid-show.com .

Workshop general co-chair for The Second International Workshop on Localized Communication and Topology Protocols for Ad hoc Networks LOCAN, at the 3nd IEEE

International Conference on Mobile Ad-hoc and Sensor Systems MASS, Vancouver, Oct. 9-12, 2006 http://polaris.cse.fau.edu/mass2006 .

Best Paper Award Committee, First International Conference on Grid and Pervasive Computing GPC, May 3-5, 2006, Taichung City, Taiwan http://hpc.csie.thu.edu.tw/gpc2006.

Advisory committee member, the 3rd International Conference on Ubiquitous Intelligence and Computing (UIC-06), Wuhan and Three Gorges of China, September 3-6, 2006 http://grid.hust.edu.cn/uic06.

Local Arrangements Chair, 5th International Conference on AD-HOC Networks & Wireless, Aug. 17 - 19, 2006, Ottawa, http://kunz-pc.sce.carleton.ca/AdHocNow2006/ .

Steering Committee Member, IFIP 11th Personal Wireless Communications PWC'06, Sept. 20-22, 2006, Albacete, Spain, www.i3a.uclm.es/pwc06 .

Award Co-Chair, The 3nd IEEE International Conference on Mobile Ad-hoc and Sensor Systems MASS, Vancouver, Oct. 9-12, 2006 http://polaris.cse.fau.edu/mass2006 .

Workshop Chair, The 2nd IEEE International Conference on Mobile Ad-hoc and Sensor Systems MASS, Washington, DC, USA, November 7-10, 2005, www.mass05.wpi.edu.

Advisory Board member of Advanced Industrial Conference on Wireless Technologies AICWT'2005, Montreal, Canada, August 17-20, 2005, www.iaria.org .

Panel organizer at Wireless Industry Congress, Ottawa, 21-23 Sep. 2003 (on: Ad Hoc Networks).

Advisory committee member for IASTED International Conference on Parallel and Distributed Computing and Systems, 1999 (Boston, Nov. 3-6); Anaheim, CA, Aug. 2001; Boston, Nov. 4-6, 2002.

Advisory Committee member for the Software Technology Track of the Hawaii Int. Conference on System Sciences HICSS, Hawaii, January 1994-1998; 2001, 2002.

Steering Committee chair, IASTED International Conference on Parallel and Distributed Computing and Systems, Washington, Oct. 13-16, 1997.

Program and Organizing Committee member of Second Canadian Conference in Computational Geometry, Ottawa, Ontario, Canada, August 6-10, 1990.

- **Program Committee member of the following conferences:**

2009 (6 events; a number of invitations were declined)

The Second International Workshop on Adaptive Systems in Heterogeneous Environments (ASHEs) 16-19 March, 2009, Fukuoka, Japan, www.cs.bham.ac.uk/~rza/ashes09/ .

10th IEEE International Symposium on a World of Wireless, Mobile and Multimedia Networks 2009 (WoWMoM 09) to be held on June 15-19, 2009, on the Island of Kos, Greece. http://wowmom08.ics.uci.edu .

Sixth Annual IEEE Communications Society Conference on Sensor, Mesh, and Ad Hoc Communications and Networks SECON, 22 - 26 June 2009 • Rome, Italy www.ieee-secon.com/2009 .

The First International Workshop on Vehicular Communication Technologies (VehiCom 2009) (http://www.eps.hw.ac.uk/~cw46/VehiCom2009.html), Leipzig, June 2009, co-located with IWCMC 2009 (http://iwcmc.com/).

Workshop on Advances in Parallel and Distributed Computational Models (APDCM), with the 23rd International Parallel and Distributed Processing Symposium (IPDPS-2009), may 25, 2009, Rome, Italy, www.cs.hiroshima-u.ac.jp/apdcm .

Fifth IEEE International Workshop on Sensor Networks and Systems for Pervasive Computing, to be held in conjunction with IEEE PerCom 2009, March 9-13, 2009, Galveston, TX (http://www.percom.org/).

7th Annual IEEE Int'l Conference on Pervasive Computing and Communications (PerCom 2009), Dallas, 16-20 March, 2009. www.percom.org

IEEE ICC'2009-AHSNET (ICC'2009- Adhoc and Sensor Networking Symposium), June 14-18, 2009 in Dresden, Germany. www.comsoc.org/confs/icc/2009 .

2008 (9 events; a number of invitations were declined)

Organizing Committee co-chair, ROGICS'08, International Conference on Relations, Orders and Graphs: Interaction with Computer Science, 12-17 May 2008, Mahdia, Tunisia, www.rogics.com .

Int. Conference on Wireless Algorithms, Systems and Applications WASA08, Dallas, Tx, USA, October 26-28, 2008, www.wasaconf.org/wasa2008/index.html .

ICCCN 2008 Cross-layer Design and Optimization Track, St. Thomas, Virgin Islands (USA), August 4-7, 2008.

13th IFIP International Conference on Personal Wireless Communications (PWC'2008), Toulouse (France), September 17-19, 2008.

10th Workshop on Advances in Parallel and Distributed Computational Models (APDCM), in conjunction with the 22nd Int. Parallel and Distributed Processing Symposium (IPDPS-2008). www.cs.hiroshima-u.ac.jp/apdcm/.

9th IEEE International Symposium on a World of Wireless, Mobile and Multimedia Networks 2008 (WoWMoM 08), June 23-26, 2008, Newport Beach, California, USA.

Wireless and Mobile Computing Track at the 28th Int. Conf. on Distributed Computing Systems (ICDCS), June 17-20, 2008, Beijing, China. www.engin.umd.umich.edu/icdcs/ .

IEEE ICC WAS 2007 Wireless Networking Symposium, Beijing, June, 2008.

IEEE WCNC (Wireless Communications & Networking Conference), Las Vegas, Nevada, USA, 31 March - 3 April, www.ieee-wcnc.org .

2007 (27 events)

3rd International Conference on Mobile Ad-hoc and Sensor Networks (MSN-07, http://conference.bjtu.edu.cn/), Beijing, 12-14 December 2007.

IEEE APSCC 2007, The IEEE Asia-Pacific Services Computing Conference 2007 to be held in December 11-14, Tsukuba, Japan http://conferences.computer.org/apscc/2007 .

The Third IEEE International Workshop on Heterogeneous Multi-Hop Wireless and Mobile Networks 2007 (IEEE MHWMN'07), www.cis.uoguelph.ca/~denko/mhwmn07.html at IEEE MASS, October 8-12, 2007, Pisa, Italy.

The 32nd Annual IEEE Conference on Local Computer Networks (LCN), Dublin, Ireland, Oct. 15-18, 2007 www.ieeelcn.org .

DIAL-M-POMC 2007 Joint Workshop on Foundations of Mobile Computing, in conjunction with ACM SIGACT-SIGOPS Symposium on Principles of Distributed Computing (PODC 2007), Portland, Oregon, August 16, 2007, www.podc.org/podc2007 .

Workshop: From Theory to Practice in Wireless Sensor Networks, at IEEE WoWMoM, June 18, 2007, Helsinki, Finland.

8th IEEE International Symposium on a World of Wireless, Mobile and Multimedia Networks (IEEE WoWMoM 2007), Helsinki, Finland, June 18-21, 2007.

27th IEEE International Conference on Distributed Computing Systems, June 25-29, 2007 in Toronto, Canada. www.eecg.utoronto.ca/icdcs07 .

IEEE ICC WAS 2007 Wireless Adhoc and Sensor Networks Symposium, Glasgow, 24-28 June, 2007, http://www.icc2007.org/symposium09.htm .

5th International workshop on Mobile Distributed Computing (MDC'07), in conjunction with IEEE ICDCS, June 25-29, Toronto, Canada.

12th IEEE Symposium on Computers and Communications, ISCC07, July 1-4, 2007, Aveiro, Portugal IEEE ISCC www.av.it.pt/iscc07 .

Fifth Annual Conference on Communication Networks and Services Research (CNSR) (http://www.cnsr.info/Events/CNSR2006/), May 2007.

Persens, at IEEE Percom 2007 March 26-30, 2007 - White Plains, NY, USA, http://www.ing.unipi.it/persens .

International Conferences on Wired / Wireless Internet Communications WWIC 2007, Coimbra, Portugal, 23-25 May 2007 http://wwic2007.dei.uc.pt/ .

IFIP Networking 2007 conference, Atlanta, Georgia USA, May 14-18, 2007. http://networking2007.uncc.edu .

IFIP International Conference on Network and Parallel Computing NPC 2007, Dalian, China, September 18-21, 2007. www.dlmu.edu.cn/npc2007 .

9th Workshop on Advances in Parallel and Distributed Computational Models (APDCM), in conjunction with the 21th International Parallel and Distributed Processing Symposium (IPDPS-2007), Long Beach, March 26, 2007 www.cs.hiroshima-u.ac.jp/apdcm .

Second international conference on wireless algorithms, systems, and applications WASA, Chicago, Aug. 1-3, 2007.

16th IEEE International Conference on Computer Communications and Networks ICCCN, Aug. 13 - 15, 2007, Honolulu, Hawaii USA http://sa1.sice.umkc.edu/icccn2007 .

International Workshop on Theoretical and Algorithmic Aspects of Sensor and Ad-hoc Networks (WTASA07), Miami, Florida, June 28-29, 2007 http://web.eng.fiu.edu/wtasa07 .

The Fourth International Conference on Broadband Communications, Networks, and Systems (BROADNETS 2007), Raleigh, North Carolina, Sept. 2007 www.broadnets.org/2007/.

ALGOSENSORS'2007 algosensors2007.im.pwr.wroc.pl, collocated with ICALP, Wroclaw, Poland, July 14, 2007.

6th International Conference on AD-HOC Networks & Wireless, Sept. 24-26, 2007, Morelia, Mexico www.scs.carleton.ca/~adhocnow/2007/ .

Track 4: Intelligent Sensors and Sensor Networks, at 12th IEEE Conference on Emerging Technologies and Factory Automation , September 25-28, 2007 - Patras, Greece.

12th IFIP Personal Wireless Communications Conference (PWC'07), September 12-14, 2007, Prague, Czech Republic http://pwc07.cvut.cz .

First International Workshop on Distributed Sensor Systems (DSS 2007), at IEEE ICCCN, Honolulu, Hawaii, August 2007. http://alamode.mines.edu/~qhan/dss07 .

Steering Committee member of the The First IFIP Wireless Sensor And Actor Networks (WSAN 2007) September 24-26 2007, Albacete, Spain www.i3a.uclm.es/wsan07 .

2006 (34 events)

The Twelfth ACM Annual International Conference on Mobile Computing and Networking MobiCom, Sept. 2006 Los Angeles, California, USA www.sigmobile.org/mobicom/2006/.

The 7th ACM International Symposium on Mobile Ad Hoc Networking and Computing MobiHoc, May 22-26, 2006, Florence, Italy http://www.sigmobile.org/mobihoc/2006/ .

The 31st Annual IEEE Conference on Local Computer Networks (LCN), Tampa, Florida. November 14-16, 2006 www.ieeelcn.org .

Second IEEE International Conference on Distributed Computing in Sensor Systems DCOSS, San Francisco, June 18-20, 2006, www.dcoss.org/dcoss06.

Second IEEE International Workshop on Next Generation Wireless Networks 2006 (IEEE WoNGeN '06): Wireless Mesh Networks -- A Viable Alternative, with Int. Conf.on High Performance Computing 2006 (HiPC '06), Bangalore, India, December 18-21, 2006.

ACM Workshop on Real-World Wireless Sensor Networks REALWSN, in conjunction with Mobisys 2006, Uppsala, Sweden, June 19, 2006 www.sics.se/realwsn06.

7th IEEE International Symp. on a World of Wireless, Mobile and Multimedia Networks WOWMOM, Buffalo/Niag. Falls, USA, June 26-29, 2006, http://ieee-wowmom.cse.buffalo.edu/.

The 3nd IEEE International Conference on Mobile Ad-hoc and Sensor Systems MASS, Vancouver, Oct. 9-12, 2006 http://polaris.cse.fau.edu/mass2006 .

IEEE Globecom 2006, Symposium on Wireless Ad hoc and Sensor Networks - towards Anytime Anywhere Internetworking, 27 Nov - 1 Dec. 2006, San Francisco, CA USA http://surnet01.eas.asu.edu/~xue/Globecom06-SensorNet/.

IEEE International Symposium on Computers and Communications (ISCC), Sardinia, Italy, June 26-29, 2006, http://www.comsoc.org/iscc/.

Fourth Annual IEEE International Conference on Pervasive Computer and Communications (PerCom), March 13-17, 2006, Pisa, Italy http://www.percom.org/ .

The Second IEEE Int. Workshop on Sensor Networks and Systems for Pervasive Computing PerSens, in conjunction with PerCom, March 13-17, 2006, Pisa, Italy http://www2.ing.unipi.it/persens2006/index.htm .

Int. Workshop on Foundations and Algorithms for Wireless networking (FAWN 2006) http://citi.insa-lyon.fr/fawn2006/, Pisa, Italy (March, 13, 2006) in conjunction with IEEE PerCom http://cnd.iit.cnr.it/percom2006/.

1st International Conference on Cognitive Radio Oriented Wireless Networks and Communications Mykonos Island, Greece, June 8 - 10, 2006. www.crowncom.org/ .

3rd Annual International Conference on Mobile and Ubiquitous Systems: Networks and Services MobiQuitous'06, San Jose, California, 17 - 21 July, 2006 http://www.mobiquitous.org.

IFIP International Conferences on Networking, Coimbra, Portugal, 15-19 May 2006 www.dei.uc.pt/Networking2006 .

Int. Conf. on Wired/Wireless Internet Communications WWIC, Bern / Switzerland, May 9-12, 2006 http://wwic2006.unibe.ch.

Fourth Annual Conference on Communication Networks and Services Research (CNSR) (http://www.cnsr.info/Events/CNSR2006/), Moncton, NB, May 23-25, 2006.

First International Conference on Grid and Pervasive Computing GPC, May 3-5, 2006, Taichung City, Taiwan http://hpc.csie.thu.edu.tw/gpc2006 .

2nd IEEE Workshop on Dependability and Security in Sensor Networks and Systems (DSSNS'2006), Columbia, MD, in conjunction with the NASA/IEEE Systems and Software Engineering Week, April 2006 www.dssns.org.

3rd Annual Conference on Wireless On demand Network Systems and Services (WONS 2006), January 18th to 20th, 2006, Les Ménuires, France.

International Conference on Digital Telecommunications, August 30-31, 2006, Côte d'Azur, France, http://www.iaria.org/conferences/ICDT.htm .

IASTED International Conference on Parallel and Distributed Computing and Networks (PDCN 2006), Innsbruck, Austria, February 14-16, 2006.

IASTED International Conference on Wireless Networks and Emerging Technologies (WNET 2006), Banff, Canada, July 3-5, 2006.

International Conference on Wireless ICW'06, July 30-31, 2006, Bucharest, Romania http://www.iaria.org/conferences/ICW06.html .

IFIP 11th Personal Wireless Communications PWC'06, Sept. 20-22, 2006, Albacete, Spain, www.i3a.uclm.es/pwc06 .

IFIP Conference on Biologically Inspired Cooperative Computing - BICC 2006, part of World Computer Congress www.wcc-2006.org , Aug. 20-25, Santiago, Chile.

International Conference on Telecommunications and Multimedia TEMU, 5-7 July 2006, Heraklion, Crete, Greece, http://www.temu2006.org/ .

5th International Conference on AD-HOC Networks & Wireless, August 17 - 19, 2006, Ottawa, Canada http://kunz-pc.sce.carleton.ca/AdHocNow2006/ .

23rd Queen's Biennial Symposium on Communications QBSC, Kingston, Canada, May 29-June 1, 2006 http://www.ece.queensu.ca/symposium/ .

Second Int. Workshop on Multi-hop Ad hoc Networks: from theory to reality REALMAN, co-located with ACM MobiHoc, Florence, Italy, May 26, 2006 http://www.cl.cam.ac.uk/realman.

2nd International Workshop on System and Networking for Smart Objects (SaNSO 2006), in conjunction with 12th International Conference on Parallel and Distributed Systems (ICPADS-2006) Minneapolis, MN, USA, July 12 - 15, 2006, http://citi.insa-lyon.fr/~gchelius/index.php?n=Conference.SANSO2006 .

MLMD'06 workshop: Multi-Layer Modeling and Design of Multi-Hop Wireless Networks, in conjunction with The Twelfth International Conference on Parallel and Distributed Systems (ICPADS 2006), Minneapolis, Minnesota, July 12-15, http://www.ecse.rpi.edu/homepages/abouzeid/MLMD/MLMD.html .

The First International Symposium on Pervasive Computing and Applications, Xinjiang, China, August, 2006.

2005 (38 events)

IEEE INFOCOM, Miami, Florida, March 13-17, 2005. www.ieee-infocom.org/2005/ .

The 2nd IEEE International Conference on Mobile Ad-hoc and Sensor Systems MASS, Washington, DC, USA, November 7-10, 2005, www.mass05.wpi.edu .

First IEEE Symposium on a World of Wireless, Mobile and Multimedia Networks (WOWMOM), Taormina (Sicily), Italy, 6-9 June, 2005, http://cnd.iit.cnr.it/wowmom2005 .

IEEE Int. Parallel and Distributed Processing Symposium (IPDPS-05), Denver Colorado, April 2005 www.ipdps.org/ipdps2005/ .

ACM/E-NEXT CoNEXT, Toulouse, France, October 24-27, 2005, www.co-next.net.

IEEE ICPS Workshop on Multi-hop Ad hoc Networks: from theory to reality REALMAN 2005 http://www.cl.cam.ac.uk/realman, in conjunction with ICPS 2005 http://icps2005.cs.ucr.edu/ July 14, 2005 Santorini, Greece.

5th IEEE IPDPS/WMAN2005 Workshop- 5th IEEE International Workshop on Algorithms for Wireless, Mobile, Ad Hoc and Sensor Networks, http://ru1.cti.gr/wman05/ .

7th Workshop on Advances in Parallel and Distributed Computational Models (APDCM), in conjunction with 19th IEEE Int. Parallel and Distributed Processing Symposium IPDPS, Denver Colorado, April 2005, www.fse.hiroshima-u.ac.jp/apdcm .

1st International Workshop on System and Networking for Smart Objects (SaNSO 2005), at 11th IEEE Int. Conf. on Parallel and Distributed Systems (ICPADS 2005), Denver Colorado, April 2005 www.lifl.fr/RD2P/SANSO2005 .

IEEE International Symposium on Computers and Communications ISCC, Cartagena (Spain), June/July 2005. www.comsoc.org/iscc/.

IEEE Wireless Communications and Networking Conference, New Orleans, March 13-17, 2005, www.wcnc.org .

30th Annual IEEE Conference on Local Computer Networks (LCN), Sydney, Australia, 15-17 November 2005.

First International Workshop on Network Security (WoNS 2005), at LCN, Nov. 2005; http://www.cs.uvic.ca/~wkui/IEEE-WoNS.htm .

Symposium on Mobile Computing of the IEEE WirelessCom 2005, Kaanapali Beach, Maui, Hawaii, USA, June 13-16th, 2005.

1st Workshop on Information Assurance in Wireless Sensor Networks (WSNIA'2005), at 24th IEEE International Performance Computing and Communications Conference (IPCCC'2005), April 2005, Phoenix, Arizona.

International workshop on Strategies for Energy Efficiency in Ad Hoc and Sensor Networks 2005 (IWSEEASN 2005), at 24th IEEE International Performance Computing and Communications Conference (IPCCC'2005), April 2005, Phoenix, Arizona.

International Symposium on Autonomous Decentralized Systems ISADS April 4-8, 2005, Chengdu, Jiuzhaigou, China http://isads05.swjtu.edu.cn/ .

Workshop on Real-World Wireless Sensor Networks, REALWSN'05, Stockholm, Sweden, June 20-21, 2005, http://www.sics.se/realwsn05.

IASTED International Conference on Parallel and Distributed Computing and Networks (PDCN), Innsbruck, Austria, February 15-17, 2005.

First Int. Workshop on Sensor Networks and Systems for Pervasive Computing PerSeNS, at IEEE PerCom, Hawaii, March 8-12, 2005, www.ing.unipi.it/persens2005/ .

Workshop on "Internet Compatible QoS in Ad hoc Wireless Networks" IC-QAWN www.cs.queensu.ca/~trl/ICQAWN, at 3rd ACS/IEEE Int. Conf. on Computer Systems and Applications AICCSA-05, Jan. 3-6, 2005, Cairo, Egypt.

IFIP Networking conference, Waterloo, Canada, May 2-6, 2005, www.cs.uwaterloo.ca/Networking2005/index.html .

International Conference on Mobile Ubiquitous Systems: Networking and Services Mobiquitous 2005, July, San Diego, CA, USA.

International Workshop on Sensor Networks for Monitoring and Tracking, 21st – 22nd October 2005, Beijing, PR China, In conjunction with ICCV 2005, http://www.i2r.a-star.edu.sg/ni/VIS2004/VIS2004.html .

Third Annual Conference on Communication Networks and Services Research (CNSR2005), Halifax, Nova Scotia, May 16-18, 2005.

Third Int. Conf. on Wired/Wireless Internet Communications, WWIC, Xanthi, Greece, May 11-13, 2005, http://net2.dslab.ee.duth.gr/wwic2005 .

Workshop on Performance of Wireless Networks and Communication Systems, at the Symp. on Performance Evaluation of Computer & Telecom. Systems (SPECTS2005), Philadelphia, July 23-28, 2005, www.scs.org/confernc/summersim/summersim05/cfp/wincs05.htm .

First International Workshop on Ad Hoc, Sensor and P2P Networks AHSP2005, Chengdu, China April 2005. www.ntt.co.jp/qos/ahsp2005.html .

Wireless Internets Conference (WICON'05), June 2005, Budapest, Hungary www.wicon.org.

8th International Conference on Computer Science and Informatics CSI 2005, in conjunction with JCIS 2005, Salt Lake City, July 21-26, 2005.

USW-05 (The First International Workshop on Ubiquitous Smart Worlds), Taipei, March 28-30, 2005 www.takilab.k.dendai.ac.jp/conf/usw/2005/.

Advanced Industrial Conference on Wireless Technologies AICWT'2005, Montreal, Canada, August 17-20, 2005, www.iaria.org .

3rd International Conference on Computer Networks and Mobile Computing, ICCNMC'05, Zhangjiajie, China, 2-4 August 2005, www.iccnmc.org .

12th Annual International Conference on High Performance Computing (HiPC, www.hipc.org), Goa, India, December 2005.

International workshop on next generation wireless networks, co-located with IEEE HiPC 05, Goa, India, December 2005 www.wongen.org .

ICETE (International Conference on E-business and Telecommunication Networks), Reading, UK, October 3-7, 2005, www.icete.org.

IADIS International conference e-Commerce 2005 (http://www.iadis.org/ec2005), Porto, Portugal, 15-17 December 2005.

IFIP Int. Conf. Network and Parallel Computing (NPC), Beijing, China, Nov.30-Dec.2, 2005, http://grid.hust.edu.cn/npc05/).

2004 (22 events)

Workshop on Wireless Local Networks, in conjunction with IEEE Local Computer Networks conference, Tampa, Florida, November 2004.

1st Workshop on Broadband Advanced Sensor Networks (BASENET '04), co-located with BroadNets, San Jose, Oct. 25-29, 2004.

Workshop on AlgorithmS for Wireless And mobile Networks (A_SWAN) Personal, Sensor, Ad-hoc, Cellular, conjunction with Mobiquitous, Boston, 22-25 August 2004, http://www.mobiquitous.org/.

Int. Conf. on Embedded and Ubiquitous Computing (EUC-04), Aizu, Japan, August 16-28, 2004.

IEEE Int. Conf. Computer Communications and Networks ICCCN, Chicago, Oct. 11-13, 2004;

IFIP Int. Conf. Network and Parallel Computing (NPC), Wuhan, China, Oct 18-20, 2004;

Mobile and Wireless Computing track of IEEE International Conference for Parallel and Distributed Systems (ICPADS), Newport Beach, July 7-9, 2004;

Int. Workshop on Mobile and Wireless Networking, at ICPP, Montreal, Aug. 15-18, 2004;

Int. Conf. Parallel Processing ICPP, Montreal, August 15-18, 2004;

IEEE Int. Conf. on Pervasive Computing and Services ICPCS, Beirut, July 19-23, 2004;

IFIP Mediter. Work. on Ad Hoc networks MedHoc, Bodrum, Turkey, June 27-30, 2004;

10th IEEE Int. Conf. on Parallel and Distributed Systems (ICPADS'04), Newport Beach, California, July 7-9, 2004;

Second Annual Conference on Communication Networks and Services (CNSR 2004), Fredericton, Canada, May 19-21, 2004;

IEEE 3rd Int. Symp. on Information Processing in Sensor Networks (IPSN'04), Berkeley, CA, April 27-28, 2004;

IEEE Int. Symp. Computers & Comm. ISCC, Alexandria, Egypt, 29 June – 1 July, 2004.

IFIP Int. Conf. Personal Wireless Comm. PWC, TC6, Delft, Holland, Sept. 21-23, 2004.

Workshop on Energy-Efficient Wireless Communications and Networks (EWCN) at IEEE Int. Performance, Computing, and Comm. Conf. (IPCCC), Phoenix, April 14-17, 2004;

Workshop on Advances in Parallel and Distributed Computational Models, at Int. Parallel and Distributed Processing Symposium, Santa Fe, April 2004;

IASTED International Conference on Parallel and Distributed Computing and Systems, Chicago, Innsbruck, Austria February 17-19, 2004;

IFIP Networking conference, Athens, Greece, May 9-14, 2004;

AD-HOC NetwOrks and Wireless (ADHOCNOW), Vancouver, July 22-24, 2004;

Int. Conf. on Communications in Computing, CIC, Las Vegas, Nevada, USA, June 2004;

2003 (12 events)

IEEE Int. Conf. Computer Commun. and Networks ICCCN, Dallas, Texas, Oct. 13-15, 2003;

IFIP Int. Conf. on Personal Wireless Comm. PWC, TC6, Venice, Italy, Sept. 23-25, 2003;

Workshop on Energy-Efficient Wireless Communications and Networks (EWCN), at IEEE Int. Performance, Computing, Comm. Conf. IPCCC, Phoenix, April 9-11, 2003;

Workshop on Advances in Parallel and Distributed Computational Models, at Int. Parallel and Distributed Processing Symposium, Nice, 22-26 April 2003;

Int. Conf. on Computer Science and Informatics, North Carolina, USA, Sept. 16-30, 2003.

IASTED Int. Conf. on Communications, Internet and Information Technology CIIT, Scottsdale, AZ, USA, Nov. 17-19, 2003.

International Symposium on Parallel Processing and Applications (ISPA 2003), Aizu-Wakamatsu City, Japan, July 2-4, 2003.

Int. Workshop on Nature Inspired Distributed Computing NIDISC, in conjunction with IPDPS, Nice (France), April 2003.

AD-HOC NetwOrks and Wireless (ADHOCNOW), Montreal, October 8-10, 2003;

Int. Conf. on Parallel Processing ICPP, Montreal (Canada), Aug. 15-18, 2003;

Int. Conf. on Communications in Computing, CIC, Las Vegas, Nevada, USA, June 2003;

10th International Conference on High Performance Computing December 18-21, 2003, Hyderabad, India, www.hipc.org/hipc2003/HiPC.pdf

2002 (10 events)

IEEE Int. Conf. on Computer Communications and Networks ICCCN, Miami, Florida, Oct. 14-16, 2002;

International Conference on Wireless Networks, Las Vegas, USA, June, 2002;

Biennial Symposium on Communications, Queen's University, Kingston, Ontario, Canada, June 2-5, 2002;

Sixth International Symposium on Parallel Architectures, Algorithms, and Networks (I-SPAN'02), Manila, Philippines, May 23-25, 2002;

Workshop on Wireless Local Networks, in conjunction with IEEE Local Computer Networks conference, Tampa, Florida, November 6-8, 2002;

Workshop on Advances in Parallel and Distributed Computational Models, at Int. Parallel and Distributed Processing Symposium, Fort Lauderdale, USA, April 15, 2002;

IFIP Networking conference, Pisa, Italy, May 19-24, 2002;

AD-HOC NetwOrks and Wireless (ADHOCNOW), Toronto, September 20-21, 2002;

Conf. High Performance Computing, Moncton, New Brunswick, June 17-19, 2002;

Int. Conf. on Communications in Computing, CIC, Las Vegas, Nevada, USA, June 2002;

2001 (10 events)

Workshop on Wireless Local Networks, in conjunction with IEEE Local Computer Networks conference, Tampa, Florida, November 14-16, 2001;

IEEE Int. Conf. on Computer Communications and Networks ICCCN, Scottsdale, Arizona, Oct. 15-17, 2001;

Mexican Int. Conference in Computer Science ENC-01, Aguascalientes, Ags., Sept. 15-19, 2001.

Int. Conf. on Communications in Computing, CIC, Las Vegas, Nevada, USA, June 2001;

Eight IEEE International Conference on Parallel and Distributed Systems, Kyongju City, Korea, June 26-29, 2001.

Int. Conf. on Parallel Processing ICPP, Valencia (Spain), Sept. 4-7, 2001;
Workshop on Wireless Networks and Mobile Computing at ICPP 2001;
IEEE Int. Symp. Cluster Computing and the Grid, CCGrid2001, Brisbane, Australia, May 2001;
Workshop on Advances in Parallel and Distributed Computational Models, at Int. Parallel and Distributed Processing Symposium, San Francisco, April 23-27, 2001;
Workshop on Biologically Inspired Solutions to Parallel Processing Problems BioSP3: San Francisco, April 23, 2001.

2000 (6 events)
IEEE Int. Conf. on Computer Communications and Networks ICCCN, Las Vegas, Nevada, USA, Oct. 16-18, 2000;
Workshop on Advances in Parallel and Distributed Computational Models, at Int. Parallel and Distributed Processing Symposium, Cancun, Mexico, May 1-5, 2000;
Int. Conf. on Parallel Processing ICPP, Toronto, Aug. 21-24, 2000;
Workshop on Biologically Inspired Solutions to Parallel Processing Problems BioSP3: Cancun, May 1, 2000;
VIII Conference on Logic and Computer Science, Novi Sad, Yugoslavia, Sept. 4-7, 2000.
Int. Conf. on Communications in Computing, CIC, Las Vegas, Nevada, USA, June 2000;

1990-1999 (19 events)
Workshop on Biologically Inspired Solutions to Parallel Processing Problems BioSP3: Orlando, March 30-April 3, 1998; Puerto Rico, April 12-16, 1999;
International Symposium on Parallel Algorithms, Architectures and Networks, Perth, Western Australia, June 23-25, 1999.
11th ISCA International Conference on Parallel and Distributed Computing Systems, Sept. 2-4, 1998, Chicago, IL; Fort Lauderdale, Aug. 17-20, 1999.
Conferences "Vision Geometry", part of SPIE's symposia on:
X: Optical Science and Technology, Seattle, 7-11 July, 2002.
X: Optical Science and Technology, San Diego, 29 July- 3 Aug. 2001.
IX: Optical Science and Technology, San Diego, CA, July 30-Aug. 4, 2000.
VIII: Optical Science, Engineering & Instrumentation, Denver, CO, July 18-23, 1999.
VII: Optical Science, Engineering & Instrumentation, San Diego, CA, July 19-24, 1998.
VI: Optical Science, Engineering & Instrumentation, San Diego, CA, July 27- Aug. 1, 1997.
V: Optical Science, Engineering, and Instrumentation, Denver, CO, USA, 4-9 Aug. 1996
IV: Optics, Imaging, and Instrumentation, San Diego, CA, USA, 9-14 July 1995.
III: Photonic Sensors & Controls for Commercial Applic., Boston, Oct. 31-Nov. 4, 1994
II: Optical Tools for Manufacturing and Advanced Automation, Boston, 7-10 Sept.1993.
I: OE/Technology '92, Boston, Massachusetts, USA, 15-20 November 1992.
IASTED International Conference on Parallel and Distributed Computing and Systems, Chicago, Illinois, USA, Oct. 16-19, 1996, Las Vegas, Oct. 1998;
Canada-France Conf. on Parallel Computing, Montreal, May 18-20, 1994.
International Conference on Computing and Information ICCI '90, Niagara Falls, Ontario, Canada, May 23-26, 1990.
VIII Conference on Logic and Computer Science, Novi Sad, Yugoslavia, Sept. 1-4, 1997;
Conf. High Performance Computing, Winnipeg, 1997;

- **Books, Editorial Board member:**

Editorial Board member for 'THE HANDBOOK OF COMPUTER NETWORKS', Three Volume Set, (EIC: Hossein Bidgoli), John Wiley & Sons, 2005-2006, 2800pp, to appear.

Editorial Advisory Board member for Parallel & Distributed Computing Handbook (edited by Albert Y.H. Zomaya), McGraw Hill Series on Computer Engineering, 1996, 1200pp.

External examiner for Ph.D. theses (since 2000):

Patrick Morin (Carleton University), 2000.

Dana Cristofor (Univ. Mass., Boston), 2002.

Laurentiu Cristofor (Univ. Mass., Boston), 2002.

Stefan Bruda (Queen's Univ.), 2002.

Jason Morrison (Carleton University), 2002.

Lan Wang (Old Dominion University, Norfolk), December 2004.

Xiaojing Tao (Carleton University), August 2005.

Jie Lian (University of Waterloo), November 2005.

Fabrice Theoleyre (INSA, Lyon, France), September 2006.

Catherine THOMAS DECAYEUX, Amiens, France, September 2006.

Javid Taheri, The University of Sydney, Australia, Nov. 2006.

Colin Lemmon, James Cook University, Cairns, Australia, May 2007.

Michele Nati, University of Roma 'La Sapienza', Italy, November 2007.

Mahomad H.U. Cassia, University of Birmingham, UK, November 2007.

Majid Khabbazian, University of British Columbia, Vancouver, April 2008.

Abdulbaset Gaddah, Carleton University, Ottawa, October 2008.

Internal examiner for Ph.D. theses, at the University of Ottawa (since 2000):

Natalija Vlajic (supervisors: D. Makrakis, C. Charalambous) , 2003.

Di Tian (supervisor: N. Georganas), March 2005.

Song Guo (supervisor: Oliver Young), November 2005.

Examiner for master theses (since 2005):

Boyong Liang, Carleton University, May 2005.

Ryan Taylor, Carleton University, January 3, 2006.

Ahmed Abada, Carleton University, May 18, 2006. (sup: Changcheng Huang)

Ph.D. Comprehensive exams (since 2005)

Ali El-Husseini (Ottawa), July 2005.

Ilker Onat (Ottawa), November 2005.

- Other:

Panel member, NSF (USA), for NEDG panel at NeTS (Network Systems), June 2008.

Panel member, NSF (USA), for Computing and Communications Foundation, June 2008.

Panel member, ACM Mobihoc, ('New architectures and disruptive technologies for the future wireless networks'), Hong Kong, May 29, 2008.

2008 IEEE Computer Society Fellows Committee Evaluator.

Evaluator, European Commission, Embedded Systems and Control, Brussels, Belgium, November 12-16, 2007.

Chair, Reappointment Committee, IEEE Transactions on Parallel and Distributed Systems, 2007.

Vice Chair for Publications, IEEE Technical Committee of Multiple-valued Logic (2004-07) http://cs3.el.gunma-u.ac.jp/MVL/TC06.html .

Panel member, National Science Foundations (USA), for Wireless Networks, March 2007.

Panel member, National Science Foundations (USA), for NeTS Networks Broadly Defined, May 2006.

Panelist, Mobility Provisioning and Management in Sensor Networks (chaired by Jie Wu), at RPMSN Workshop at IEEE MASS, Washington, DC, USA, November 7, 2005.

Participant of the COST-TIST Strategic Workshop on Algorithmic Challenges in Software Intensive Systems, Brussels, Belgium, Aug. 30-31, 2005.

Member of the Advisory Board and Scientific Committee of the AIKS - International Artificial Intelligence Knowledge Society www.knowledgesocieties.org since 2005.

Guest associate editor, special issue Parallel/Distributed Computing and Networking, in the IEICE Transactions on Information and Systems, Japan, Feb. 2006, to appear.

Review Committee, Special Issue on Mobile and Wireless Ad Hoc Networking, Journal of Pervasive Computing and Communications (JPCC), expected publication March 2005.

Advisory board, Graphics filter development, Fortress22, Ottawa, 2004.

Vice Chair for Publications, IEEE Technical Committee of Multiple-valued Logic (from 2004).

Panel member, Communications and Information Technology Ontario (CITO), September 2003.

External Collaborator, RD2P Research Group, POPS (System and Networking for Portable Objects Proved to be Safe) INRIA project, INRIA Futurs research unit, Lille, France, since 2003.

Panel member, National Science Foundations (USA), for Theoretical Computer Science, February 2001.

Vice-Chair for Publicity and Marketing of the IEEE Technical Committee of Multiple-valued Logic (1997-99).

Member of the Management Committee of the HPCnet, a Canadian Network for High Performance Computing (since 1996)

Member of the Executive Committee of the IEEE Technical Committee of Multiple-valued Logic (1987-1991).

Reviewer of the ACM Computing Reviews and Mathematical Review.

Referee for a number of journals and conferences.

Evaluating grant proposals for NSERC (Canada), NSF (USA), ISF (Israel), RGC (HongKong), EURYI (European Young Investigators Award).

Administrative duties at the Univ. of Ottawa:

OCICS (Ottawa-Carleton Institute of Computer Science) Director and Graduate Studies Coordinator (2002-2004).

Committees: Library, System Science graduate program, Graduate admission, Curriculum, Space, Scholarship, Graduate students seminar, Research profile.

Mathematical activities for high school students

Stojmenovic I., **Collected problems with solutions for mathematics competitions of secondary schools** (Serbian), DMFA, Novi Sad, Serbia, 1977 (second edition 1981), pp. 100. Written while Stojmenovic was freshmen at the university.

Editorial board member of the journal ***Tangenta*** (mathematics and computer science for high school students in Serbia) 1995-2003, http://www.matf.bg.ac.yu/dms/ .

Member of mathematical competition jury for high schools in Yugoslavia 1977-1982.

Competition director for the province of Voivodina (Serbia) 1977-1982.

Tutorials

Summer School on Wireless Sensor Networks SenZations, Ljubljana, Slovenia, Sept. 5, 2008, (Routing in WSN, 90 min., 50 participants)

ACM MobiHoc, Hong Kong, May 27, 2008, (Data communication and coordination in wireless sensor and sensor-actuator networks), 3 hours, 20 participants.

ProSense (Promote, mobilize, reinforce and integrate wireless sensor networking research and researchers: Towards pervasive networking of WBC and the EU), Dublin, March 11, 2008 (1.5h, 25 participants).

SENSORCOMM 2007, Valencia, Spain, October 15, 2007: Data communication and coordination in wireless sensor and sensor-actuator networks (3 hours, 60 participants).

Advanced Study Institute (Wireless Sensor Networks), City University of Hong Kong, Dec. 7, 2006: Localized routing and coordination in wireless sensor networks (2 hours, 30 participants).

IEEE 64th Vehicular Technology Conference VTC2006-Fall, Montreal, Sept. 25, 2006: Design guidelines for network layer protocols in ad hoc and sensor networks (3 hours).

Summer School in Wireless Sensor Networks, Ottawa, August 15, 2006: Networking Challenges in Wireless Sensor Networks (3 hours).

Summer School on Applications of Wireless Sensor Networks, Novi Sad, Serbia, July 31, 2006: Data communication and coordination in wireless sensor and sensor-actuator networks (6 hours).

9^{éme} Ecole d'eté Internet Nouvelle Generation ING 2005, Montreuil, June 16, 2005: Design guidelines for network layer protocols in ad hoc and sensor networks (3 hours).

The 1st IEEE International Conference on Mobile Ad-hoc and Sensor Systems MASS, Fort Lauderdale, October 24, 2004: Scalable and localized network layer protocols in ad hoc and sensor networks (3 hours).

The 3rd Int. Conf. on AD-HOC Networks & Wireless, Vancouver, BC, Canada, July 22, 2004: Sensor Networks (3 hours).

The Third Annual Mediterranean Ad Hoc Networking Workshop, Bodrum, Turkey, June 28, 2004: Ad Hoc Networks (6 hours)

IEEE COMSOC-OWRA Seminar, Ottawa, November 26, 2003
Sensor networks: Research challenges in data communication and topology control (2 hours)
Ad Hoc, Mobile and Wireless networks Conference AdHocNow, Montreal, October 8, 2003:
Scalable and localized network layer protocols for ad hoc networks (3 hours)
IEEE Symposium on Computers & Communications ISCC, Taormina, Sicily, Italia, July 1, 2002: Ad hoc networks (3 hours).

Keynotes at conferences:

International Conference on Intelligent Computation Technology and Automation ICICTA 2008) 20. October, 2008, Changsha, China, *Keynote*: Contribution of applied algorithms to applied computing. http://www.icicta.org/Show.asp?id=36 (250 attended).
PhDNow 2008, at AdHocNow Conference, Sophia Antipolis, France, Sept. 13, 2008: 'How to present research articles'.
IEEE 11th Int. Conf. on Computational Science and Engineering CSE, Sao Paulo, SP, Brazil, July 17, 2008, *Keynote*: Contribution of applied algorithms to applied computing. http://www.icmc.usp.br/~cse08/keynote.html .
First ACM Workshop on Sensor Actor Networks SANET 2007, at **ACM MobiCom'07,** Montreal, Canada, Sept. 10, 2007, 1-2, Keynote talk: Simulations in ad hoc and sensor networks.
IEEE ICCCN, Hawaii, August 13, 2007:
Position talk: Sensor-actuator networks: Merging sensor and ad hoc networks
The 1st International Workshop on Wireless Mesh Networks and Applications (WiMa 2006), at IEEE MASS, October 9, 2006: 'Routing in ad hoc networks'.
ACM DIALM-POMC Workshop, Philadelphia, October 1, 2004:
'State of the art in ad hoc and sensor networks research'.
Algorithms for Wireless and mobile networks (A_SWAN) workshop, Boston, 26 August 2004:
'State of the art in ad hoc and sensor networks research'.

Invited talks

School of Computer Sci., National University of Defense Technology, Changsha, China, Oct. 22, 2008
LRI, University Paris-Sud 11, France, June 16, 2008.
AIST, Tsukuba, Japan, March 21, 2008.
IEEE UKRI , London, UK, March 18, 2008.
Chinese Academy of Science, CCF Sensor Network Technical Committee, Beijing, Dec. 11, 2007.
Dalian Maritime University, December 7, 2007 (DMU 'has conferred upon Mr. Ivan Stojmenovic VISITING PROFESSORSHIP, October 2007').
Dalian University of Technology, December 7, 2007.
University of Toronto, Toronto Networking Seminar, Feb. 2, 2007.
Hong Kong Baptist University, Dec. 12, 2006.
Department of Computing, Hong Kong Polytechnic University, Dec. 11, 2006.
Department of Information Engineering, Chinese University of Hong Kong, Dec. 8, 2006.
Computer Science Department, University of Manitoba, Winnipeg, May 9, 2006.
Faculty of Engineering, University of Birmingham, UK, March 2006.
Instituto de Investigacion en Informatica, Univ. De Castilla- La Mancha, Albacete, July 8, 2005.

University of St Andrews, Scotland, UK, June 2, 2005.
Departamento de Ciencias de la Computation IIMAS, UNAM, Mexico, May 23, 2005.

Create-Net, Trento, Italy, Feb. 9, 2005.
LIFL, University of Lille, France, January 2005.

Computer Science, Old Dominion University, Norfolk, Dec. 15, 2004.

Computer Science, Loughborough University (presentation over phone), UK, Dec. 7, 2004.
Kent State University, Kent, Ohio, April 2004.
Mathematical Institute, Serbian Academy of Science, Belgrade, May 2003.
LIFL, University of Lille, France, June 2002.
Dept. CS & EE, Florida Atlantic University, Boca Raton, USA, April 2002.
Dept. CS, University of Alabama, Tuscaloosa, USA, November 2001.
IIMAS, UNAM, Mexico City, June 2000, November 2000.

Dept. of EE & CS, Washington State University, Pullman, WA, March 2000.
Leicester University, Dept. Math & Comp. Sci., UK, December 1999.
Departamento de Ciencias de la Computation IIMAS, UNAM, Mexico, Nov. 1999 (2 talks).
Faculté de Math et d'Inform., Univ. de Picardie Jules Verne, Amiens, France, July 1998 (2 talks).
Department d'Informatics, Universite du Québec a Hull, October 1997.
Faculty of Engineering, University of Belgrade, Yugoslavia, July 1996
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Electrotechnical Laboratory, Tsukuba, Japan, June 1989
Recruit Institute for Supercomputing Research, Tokyo, Japan, June 1989

Major presentations *(symposia, workshops, meetings) 1989-present*

IEEE DCOSS, Prosense Special session, Santorini, Greece, June 14, 2008.
ACM MobiHoc, Hong Kong, May 27, 2008.
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5th Canadian Conference on Computational Geometry, Waterloo, August 1993
International Conference on Computing and Information, Sudbury, Canada, May 1993
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Vision Geometry, part of SPIE OE/Technology Symposium, Boston, Nov. 1992
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Dept. of Mat. & Comp. Sci. Sem., Univ. of Miami, Miami, FL, USA, February 1992
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Citation summary

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Statistics April 2008 :
Citations collected and listed by I. Stojmenovic
Self-references (citations made in articles by Stojmenovic) are not included.
Lists of all citations are available.

Lifetime (1985-2007)
Total citations count: **3968**
Total number of distinct cited articles: **174**
Average number of citations per article: **22.8**

Wireless networks (from 1999)
Total citations count: **2911**
Total number of distinct cited articles: **69**
Average number of citations per article: **42.2**

Other areas (since 1985)
Total citations count: **1057**
Total number of distinct cited articles: **105**
Average number of citations per article: **10.1**

Google Scholar November 6, 2008: *4890 citations*

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D16.=F34. Melter R.A., and Stojmenović I., Solving city block metric and digital geometry problems on the BSR model of parallel computation, **Vision Geometry II,** part of SPIE, Proceedings Vol. 2060, Boston, Sept. 1993, 39-48.

D15.=F32. Djokić B., Stojmenović I., Constant time digital geometry algorithms on the scan model of parallel computation, **Vision Geometry,** part of OE/Technology'92 Symposium, SPIE Proceedings Vol. 1832, Nov. 1992, Boston, 162-170.

D14.=F53. Czyzowicz J., Stojmenović I., and Urrutia, J., Immobilizing a shape in the plane (extended abstract), **Third Canadian Conference on Computational Geometry,** Vancouver, Canada, August 1991, 41-45.

D13.=F53. Czyzowicz J., Stojmenović I., and Urrutia, J., Immobilizing a polytope, **Second Workshop on Algorithms and Data Structures WADS'91,** Ottawa, Canada, August 1991, Lecture Notes in Computer Science, Vol. 519, 214-227.

D12.=F28. Akl S.G., *Qiu K.,* and Stojmenović I., Data communication and computational geometry on the star and pancake interconnection networks, **Third IEEE International Symposium on Parallel and Distributed Processing**, Dalas, Texas, Dec. 1991, 414-422.

D11.=F25. Bhattacharya B.K., Czyzowicz J., *Egyed P.,* Stojmenović I., Toussaint, G.T., and Urrutia, J., Computing shortest transversals of sets, **Seventh Annual ACM Symposium on Computational Geometry,** North Conway, New Hampshire, USA, June 1991, 71-80.

D10.=F29. Melter R.A., Stojmenović I., and Zunić J., Statistical characterization of digital lines, **Vision Geometry,** part of OE/Technology'92 Symposium, SPIE Proceedings Vol. 1832, Boston, Nov. 1992, 142-149.

D9.=F23. *Elhage H.,* and Stojmenovic I., Systolic generation of combinations from arbitrary elements, Proc. **ISMM 5th Int. Conference on Parallel and Distributed Computing and Systems,** Pittsburg, October 1992, 352-354.

D8.=F28. Akl S.G., *Qiu K.,* and Stojmenović I., Computational geometry on the star and pancake networks, **Third Canadian Conference on Computational Geometry,** Vancouver, Canada, August 1991, 252-255 (extended abstract).

D7.=F17. Stojmenović I., Cutting the volumes of convex polyhedra by a plane, **Second Canadian Conference in Computational Geometry,** (J. Urrutia, ed.), Ottawa, Aug. 1990, 291-295.

D6.=F14. Dehne F., *Pham Q.T.,* Stojmenović I., Optimal visibility algorithms for binary images on the hypercube, **26th Annual Allerton Conf. on Communication, Control and Computing,** Univ. of Illinois, Urbana-Champaign, September 1988, 1035-1036.

D5.=F10. Springsteel F.N., Stojmenović I., Parallel general prefix computations with geometric, algebraic and other applications, **Seventh International Conference on Foundamentals of Computation Theory FCT'89,** August 1989, Szeged, Hungary, Lecture Notes in Computer Science, Vol. 380 (J. Csirik, J. Demetrovics, F. Gecseg, eds.), Springer-Verlag, Berlin, 424-433.

D4.=F5. Dehne F., and Stojmenovic I., An optimal parallel solution to the ECDF searching problem for higher dimensions on a mesh of processors, **25th Annual Allerton Conf. on Communications, Control and Computing,** Univ. of Illinois, Urbana-Champaign, 1987, 660-661.

D3.=F4. Stojmenović I., *Miyakawa M.,* Applications of a subset generating algorithm to base enumeration, knapsack and minimal covering problems, **Symp. on Algorithms: Mathematical foundations and applications,** Kyoto University, Research Institute for Mathematical Sciences, Feb. 3-5, 1986, No. 591, 30-44.

D2.=L6. *Miyakawa M.,* Stojmenović I., Classifications and base enumerations of the maximal sets of three-valued logical functions, **Symposium on Algorithms: Mathematical foundations and applications,** Kyoto University, Research Institute for Mathematical Sciences, Feb. 3-5, 1986, No. 591, 25-29.

D1.=L8. Stojmenović I., *Miyakawa M.,* An optimal parallel algorithm for solving the maximal elements problem in the plane, **National Conference Record on Information Science and Technology of IEICE Japan,** 1987, 1, 55 (in Japanese).

Ivan Stojmenovic Publication statistics

Abbreviations:
F- Full papers in refereed journals (major journals only)
L- Letters, short papers, notes and communications
C- Papers in international refereed conference proceedings (papers duplicated in a journal are not counted)
J- Full papers in refereed journals (other journals, mainly in Yugoslavia)
N- Papers in national (mainly in Yugoslavia) refereed conference proceedings
D- Papers in refereed conference proceedings, duplicated in a journal
B- Books
BC- book chapters
T-Technical reports (not published elsewhere only)
P- Technical reports (published elsewhere)

	BC	F	L	C	BC+F+L+C	J	N	BC+F+L+C+J+N	D	B	T	P
2008, to appear	2	11	0	3	16	0	0	16	1	0	0	0
2007	4	3	0	9	16	0	0	16	6	0	0	2
2006	8	10	0	4	22	0	0	22	13	0	0	0
2005	7	7	0	2	16	0	0	17	8	0	0	2
2004	2	5	1	2	10	0	0	10	9	0	0	2
2003	1	6	0	1	8	0	0	8	3	0	0	1
2002	2	9	0	2	13	0	0	13	8	0	0	0
2001	0	7	0	1	8	0	0	8	6	0	0	1
2000	0	5	0	0	5	0	0	5	4	0	0	1
1999	0	2	0	0	2	0	0	3	3	0	1	6
1998	0	4	0	1	5	0	0	5	1	0	0	2
1997	0	4	1	1	6	0	0	6	1	0	0	0
1996	4	6	0	1	11	0	0	11	2	0	0	1
1995	1	5	0	1	7	1	0	8	3	0	0	1
1994	0	4	0	4	8	0	0	8	6	0	0	0
1993	0	4	0	1	5	3	0	8	5	0	0	10
1992	1	7	0	2	10	0	0	10	4	0	0	4
1991	1	3	0	1	5	1	0	6	5	0	0	8
1990	0	4	0	3	7	0	0	7	1	0	0	8
1989	0	4	2	2	8	1	1	10	1	0	0	10
1988	0	4	2	4	10	2	0	12	1	0	0	6
1987	0	2	5	1	8	3	4	15	2	1	0	5
1986	0	1	2	0	3	4	2	9	2	1	0	0
1983-85	1	0	0	0	1	10	7	18	0	1	0	0
total	34	117	13	46	210	25	14	**249**	88	3	1	66

Summary of publications
Books: **3** written, **4** edited *Book chapters:* **34**
Refereed *journals:* (=F+L+J): **151**
Refereed *conferences* (papers published later in a journal are not counted): (=C+N): **49**
Duplications (mainly conference papers later published in a journal =D): **85**
Distinct *refereed articles* (=BC+F+L+C+J+N): ***247***

Ivan Stojmenovic

Distribution of publications per journals

IEEE Transactions on Parallel and Distributed Systems **10**
IEEE Transactions on Neural Networks **2**
IEEE Transactions on Education **1**
IEEE Transactions on Mobile Computing **1**
ACM Mobile Computing and Communications Review **1**
IEEE Sensors **1**
IEEE Transactions on Computers **1**
IEEE Selected Areas in Communications **1**
IEEE Communications Magazine **2**
IEEE Network **2**
International Journal of Parallel, Emergent and Distributed Systems **1**
Journal of Chemical Information and Computer Sciences **1**
Neural Processing Letters **1**
Int. J. Pattern Recognition and Artificial Intelligence **1**
Nordic Journal of Computing **1**
Information Processing Letters **7**
Discrete Applied Mathematics **4**
Journal of Parallel and Distributed Computing **7**
Parallel Computing **3**
International Journal of High Speed Computing **1**
Parallel Processing Letters **5**
International Journal of Parallel Programming **3**
BIT **3**
International Journal of Computational Geometry and Applications **3**
Pattern Recognition Letters **2**
Journal of Information Processing and Cybernetics EIK **2**
Networks **1**
International Journal of Computer Mathematics **2**
The Fibonacci Quarterly **1**
Computers & Mathematics with Applications **2**
Acta Scientiarium Mathematicarum **2**
Journal of Molecular Structure THEOCHEM **1**
Parallel Algorithms and Applications **1**
The Journal of Combinatorial Mathematics and Combinatorial Computing **1**
The Computer Journal **2**
Comptes Rendus Mathematiques de l' Academie des Sciences Canada **1**
Machine Graphics and Vision **1**
Journal of Mathematical Imaging and Vision **1**
Information Sciences **1**
The Transactions of the IEICE of Japan **3**
Glasnik Matematicki (Yug./Croatia) **1**
Univ. u Novom Sadu Zb. Rad. Prirod.-Mat. Fak. Ser. Mat. (Yugoslavia) **18**
Mathematics & Informatics Quarterly **1**
Rostocker Mathematische Kolloquium (DDR/Germany) **1**
Informatika (Yugoslavia) **1**
Bulletin of the Electrotechnical Laboratory (Japan) **1**
Informatica (Yug./Slovenia) **3**
(J.) Multiple-Valued Logic (and Soft Computing) **4**
Utilitas Mathematica **1**
Journal of Supercomputing **2**
CD-ROM J. Computing and Information **1**
Cluster Computing **1**
Computers & Artificial Intelligence **2**
CVGIP: Graphical Models and Image Processing **1**
Journal of Interconnection Networks **1**
IEEE/KICS Journal of Communication Networks **1**
Wireless Networks **2**
ACM Mobile Networks and Applications **1**
Ad Hoc Networks **1**
Computing and Informatics **1**
Wireless Communications and Mobile Computing **3**
Telecommunication Systems **2**
IEEE Wireless Communications Magazine **1**
Computer Communications **3**
Journal of Internet Technology **1**
International Journal of Distributed Sensor Networks **1**
IEEE Transactions on Vehicular Technology **1**
Sensor Review **1**
Int. J. Parallel, Emergent and Distributed Systems **1**
Acta Automatica Sinica **1**
International Journal of Sensor Networks **1**
International Journal of Communication Networks and Distributed Systems **1**
International Journal of Computational Science **1**
Computer Science and Information Systems ComSIS **1**
Pervasive and Mobile Computing **1**
Integrated Computer-Aided Engineering **1**
International Journal of Autonomous and Adaptive Communications Systems IJAACS **1**

Distribution of publications per conferences

IEEE Int. Conf. on Mobile Ad-hoc and Sensor Systems MASS **3**
ACM Symposium on Mobile Ad Hoc Networking & Computing MobiHoc **1**
ACM MOBICOM **1**
IEEE Symposium on Computers and Communications **3**
IEEE Int. Symp. on Multiple-Valued Logic **17**
IEEE Int. Symp. on Parallel and Distributed Processing **4**
ACM Symp. on Computational Geometry **1**
Hawaii International Conference on System Sciences **3**
Lecture Notes in Computer Science **15**
(Parallel Architectures and Languages Europe PARLE,
Scandianavian Workshop on Algorithm Theory SWAT,
Conf. on Foundamentals of Computation Theory FCT,
SIGAL Int. Symp. on Algorithms,
Comp. Anal. of Images and Patterns CAIP'95
Math. Found. of Comp. Sci. MFCS
Algorithms and Data Structures WADS
Workhop on Experimental Algorithms WEA
AD-HOC Networks and Wireless ADHOC-NOW 2
Personal Wireless Communications
Distributive Computing and Internet Technology
First Int. Conf. Wireless Alg., Systems, and Appli. WASA
Int. Conf. Ubiquitous Intelligence and Computing UIC
Int. Conf. Mobile Ad-hoc and Sensor Networks MSN)
IEEE Int. Symp. High Performance Computers **1**
IEEE Int. Conf. on Pervasive Computing and Communications PERCOM **1**
ACS/IEEE Int. Conf. on Computer Systems and Applications **1**
Conference on Wireless On demand Network Systems and Services (WONS 2005) **1**
Asian International Mobile Computing Conference AMOC **1**
IASTED Int. Conf. on Wireless and Optical Communication WOC **1**
Allerton Conference on Communication, Control and Computing **2**
Symp. Computer at the University (Yugoslavia) **5**
ETAN Symp. (Yugoslavia) **1**

IEEE SECON **1**
IEEE INFOCOM **3**
IEEE International Conference on Sensors **1**
IFIP World Congress **1**
IEEE ICCCN **2**
IEEE WLN **1**
IEEE Int. Parallel Processing Symposium **3**
IEEE Int. Conference on Parallel Processing **3**
Application-Specific Array Processors ASAP **1**
ACM Computer Science Conference **1**
Canadian Conf. on Computational Geometry **7**
Vision Geometry, SPIE **6**
Yugoslav Seminar of Graph Theory **2**
Note on Multiple-Valued Logic in Japan **1**
ISMM Int. Conf. Par. Distr. Comp. Syst. **1**
IASTED Int. Conf. Par. Distr. Comp. Syst. **1**
Int. Conf. on Computing and Information **2**
ADHOC-NOW **2**
IFIP MedHoc **3**
IEEE ISCSP **1**
Algosensors **1**
ACM SenSys Workshop **1**
IFIP WSAN 1
IEEE AINA **3**
CISIS **1**
ICTA **1**
ACM MobiCom workshop **1**
ACM MobiHoc workshops **1**
SENSORCOMM **1**
IEEE WOWMOM **1**
WSWS Information Science and Applications **1**
PDPTA **1**
Symp. on Informatics (Yugoslavia) **2**
Algebraic Conference (Yugoslavia) **1**
Conf. on Applied Mathematics (Yugoslavia) **1**

Publications in journals with measured impact factor by ISI

Ivan Stojmenovic journal	# published articles	2003 ISI impact factor	IF 2004	IF 2005	IF 2006
J. Chemical Information & Computer Science (renamed: Journal of Chemical Information and Modeling)	1	3.078	2.81	2.923	3.423
IEEE Network	1		2.667	2.792	2.211
IEEE Journal on Selected Areas in Communications	1	1.967	2.64	2.698	1.816
IEEE Communications Magazine	2	2.406	2.359	1.946	1.678
IEEE Wireless Communications	1	1.583	2.189	2.638	2.577
IEEE Trans. Neural Networks	2	1.666	2.178	2.205	2.62
Journal of Mathematical Imaging and Vision	1	0.617	0.887	2.197	1.767
ACM Wireless Networks	1	1.17	1.35	1.018	0.812
Journal of Molecular Structure ~~THEOCHEM~~	1	1.027	1.2	1.44	1.016
IEEE Trans. Parallel & Distributed Systems	10	1.183	1.19	1.462	1.246
IEEE Sensors Journal	1			1.1	1.117
Pattern Recognition Letters	2	0.809	0.576	1.138	0.952
Graphical Models and Image Processing (renamed: Graphical Models)	1			1.024	0.702
ACM Mobile Networks and Applications	1	0.844	0.931	0.923	0.659
Parallel Computing	3	0.908	0.915	0.855	0.685
Journal of Parallel and Distributed Computing	7	0.604	0.729	0.9	0.43
Wireless Communications and Mobile Computing	3		0.669	0.543	0.511
IEEE Transactions on Vehicular Technology	1		0.611	0.86	1.071
Neural Processing Letters	1	0.631	0.605	0.701	0.753
Int. J. Pattern Recognition and Artificial Intelligence	1	0.551	0.588	0.638	0.508
Computer Communications	1	0.508	0.574	0.556	0.444
Networks	1	0.649	0.571	0.742	0.485
The Computer Journal	2	0.681	0.557	0.691	0.593
Discrete Applied Mathematics	3	0.503	0.557	0.585	0.577
Information Sciences	1	0.447	0.54	0.723	1.003
IEEE Transactions on Education	1		0.526	0.644	0.362
Lecture Notes in Computer Science (# until 2006)	12		0.513	0.402	n/a
Journal of Supercomputing	2	0.404	0.474	0.482	0.398
Int. J. Computational Geometry and Applications	3	0.5	0.463	0.435	0.449
Computing and Informatics	1		0.456	0.091	0.136
Information Processing Letters	7	0.473	0.453	0.557	0.532
Computers & Mathematics with Applications	2	0.498	0.431	0.43	0.611
IEEE/KICS Journal of Communication Networks	1		0.403	0.457	0.233
International Journal of Parallel Programming	3	0.515	0.371	0.432	0.289
Telecommunication Systems	1	0.413	0.346	0.409	0.33

International Journal of Computer Mathematics	2	0.226	0.216	0.254	0.428
Utilitas Mathematica	1	0.099	0.169	0.158	0.268
Fibonacci Quarterly	1	0.18	0.134	0.14	0.096
MVLSC	4				0.2
International Journal of Distributed Sensor Networks	1				0.333
IEEE Transactions on Computers	1				
IEEE Transactions on Mobile Computing	1				
Cluster Computing	1				
Integrated Computer-Aided Engineering	1				
total number of article in rated journals	96				

Ivan Stojmenovic

Short overview of research interests and achievements
General area: *Applied algorithms: Solving scientific, engineering and practical problems*

Programming languages and computer science education
(intensive 1982-1986, sporadic 2000-2001): www.site.uottawa.ca/~ivan/lang.html .

Before my Ph.D. in 1985, I was working on functional programming languages. My LISP compiler, made in FORTRAN as part of a team of three members, was used to teach third year computer science students in Yugoslavia for two decades. I published a textbook in Yugoslavia on PASCAL programming language. I have published an article in IEEE Transactions on Education in 2000 on teaching recursion in the first year computer science program. See for details.

Computational chemistry
(sporadic 1985-1995): www.site.uottawa.ca/~ivan/chem.html .

The problems studied were graph theory applications and computer generation of benzenoid hydrocarbons, perfect matchings of square, pentagonal and hexagonal chains, and benzenoid chains with unique Clar formulas. My paper on enumerating benzenoid hydrocarbons, published in a Yugoslavian graph theory conference proceedings in 1986, has been subsequently cited about 50 times in chemical books and journals and used to derive additional chemical information.

Multiple-valued logic
(intensive 1982-1990, sporadic afterwards): www.site.uottawa.ca/~ivan/muval.html .

I did my both theses in the interdisciplinary area of multiple-valued logic. Functional completeness theory studies the constructions of logical functions from a set of primitives and enumeration of bases. The problems which are investigated include classification of functions and enumeration of bases of a closed subset of the set of all k-valued logical functions and the study of particular kinds of functions (monotone, symmetric, predicate, etc.) in many-valued logics. Set-valued logic is studied because of its recent applications in the design of biomolecular, interconnection free and wave-parallel computing models. I am managing editor of a journal in the area.

Computational geometry (theory and sequential algorithms)
(intensive 1986-1992, sporadic 1998-1999): www.site.uottawa.ca/~ivan/cg-ts.html .

Computational geometry deals with solving geometric problems by computing means. We published the first correct code for the famous Graham's convex hull algorithm. We studied the immobilization of a shape and determined the largest k-ball in d-dimensional box (this paper established my Erdes number 2!). I published in 1991 an article on bisections and ham-sandwich cuts of convex polygons and polyhedra, which is the first publication in literature that deals with subdividing geometric figures according to their *areas*. We also investigated how to compute shortest transversals of sets, with article published in ACM Computational Geometry conference.

Parallel computational geometry
(intensive 1987-1995): www.site.uottawa.ca/~ivan/pcg.html .

Problems of particular interest in computational geometry are finding the convex hull, Voronoi diagrams, intersection problems, point locations, maximal elements, circle-cover, triangulation, nearest neighbors, visibility-related problems, external watchman route etc. Several

models of parallel computation are used (e.g PRAM, MMB, star, mesh, hypercube) to describe parallel algorithms for solving geometric problems.

Image analysis and pattern recognition (intensive 1990-1996): www.site.uottawa.ca/~ivan/dg.html .

I started research in this area in order to supervise Dr. Jovisa Zunic, currently at Exeter University (UK). Geometric object like line or circle is represented on a raster screen as the set of pixels obtained in the digitization process. Representation of digital objects by least square fits is proposed. Geometric properties of such digital representations are studied. Other problems studied are digital convexity, recognition of objects, visibility problems, digital lines, digital planes.

Combinatorial algorithms (intensive 1990-1996): www.site.uottawa.ca/~ivan/comb.html are designed using sequential and parallel models of computation. We studied generating combinatorial objects such as combinations, permutations, subsets, integer partitions, set partitions, trees, B-trees, using both sequential and parallel models of computation. Combinatorial optimization problems such as knapsack, base enumeration, branch and bound problems, applications of backtracking, isomorphs-free generation etc were also investigated. My two sequential algorithms, for generating all set partitions and integer partitions, are still fastest known algorithms.
Donald E. Knuth included our integer partition generator in his historical The Art of Computer Programming, Volume 4, Fascicle 3, Errata Oct. 25, 2005.

Interconnection networks and parallel algorithms
(intensive 1988-1996, sporadic afterwards): www.site.uottawa.ca/~ivan/parallel.html .

I proposed several new interconnection networks: honeycomb networks, multiplicative circulant networks, Gray Code incomplete hypercubes, higher dimensional honeycomb and hexagonal networks. Lower bound and graph theoretical properties of new architectures are studied. Dynamic initialization of parallel computers is introduced and investigated. Parallel algorithms are developed in computational geometry, image processing, graph theory and combinatorics, using various architectures or models of parallel computation (PRAM, mesh connected computers, hypercubes, incomplete hypercubes, star, linear array of processors, BSR: broadcasting with selective reduction). My article on fundamental algorithms for star network was cited in over 50 papers, and showed that star graph has elegant communication protocols and better topological properties than hypercube network.

Bioinspired Algorithms and Applications
(intensive 1996-1998, sporadic 1998-present): www.site.uottawa.ca/~ivan/evolution.html .

I started research in this area in order to supervise Dr. Alioune Ngom, currently at the University of Windsor (Canada). We designed perceptrons for neural networks and studied algebraic foundations of biomolecular (carrier) computing. We applied neural networks, genetic algorithms, tabu search and other evolutionary computing methods to the synthesis of multiple-valued functions and circuits, channel assignment in wireless cellular networks, data broadcasting etc. Genetic algorithms are applied to solve the pagenumber problem in interconnection networks. A parallel hill climbing algorithm for pushing dependent data in clients-providers-servers systems is proposed.

Cellular Networks
In addition to a tutorial book chapter on cellular networks [ZS], we considered hybrid channel assignment problem for cellular networks [VNS1] and location management and connection rerouting problems [FSZ, GSZ].

A number of articles can be found at www.site.uottawa.ca/~ivan .

Network layer in ad hoc and sensor wireless networks

(papers can be 'decoded' at www.site.uottawa.ca/~ivan or from medium size cv)

We have made several fundamental discoveries in this area. Our routing with guaranteed delivery protocol [BMSU] from 1999 has been cited over 240 times (while the duplication of the work published a year later in a highly visible conference collected substantially more citations; details about this duplication can be seen at the applicant's web site), and is basically the only known such protocol (all subsequent ones are extensions of this one). Our article with fundamental broadcasting protocols [SSZ, S-ssz] has over 150 citations and is declared as the *Fast Breaking Paper in Computer Science* for October 2003. Our power aware localized routing protocols [SL2] also has over 130 citations and remain unique such localized solutions, until follow up protocols this year also by us [KNS3]. There are over 1200 citations to less than 50 my articles in the area, all published since 1999! Five major contributions [BMSU, SSZ, SL2, SL1, CSS] are described below. Additional contributions are described first. References are 'decoded' on my web site.

The *greedy/flooding* method from [SL1] was subsequently improved [LLS] so that only one neighbor in each connected component of the neighborhood subgraph further forwards a forwarding message from the concave node. The routing with guaranteed delivery protocol [BMSU] was made more efficient in [DSW] by adding two-hop information. Localized power and cost aware protocols from [SL2] are improved in [SD] to guarantee delivery and in [KNS3] so that greedy decisions are made without the knowledge of ideal routing behavior. We made some contributions to the location update problem for efficient routing in mobile ad hoc networks, summarized in the survey [S-loc]. We described a broadcasting protocol for one-to-one wireless networks [SSS], which includes Bluetooth based ad hoc networks, that drastically reduce the overhead (going from twice lower for sparse to twenty times lower for dense networks), as compared to the state of the art article by the MIT group at MOBICOM 1999. Energy efficient metrics, depending on the node's remaining energy and local density, were introduced in [WWS, WDGS, SSSW] for defining dominating sets, allowing the nodes to rotate in the set and extend network life. We also investigated energy efficient broadcasting where nodes may adjust their transmission radii. Our original contribution [CSS] was subsequently improved by us in [ISS1, ISS2] by adding a target radius and dominating sets to be competitive with globalized approaches for all densities, and to allow some nodes to sleep. We also studied the scatternet formation problem for Bluetooth technology [LSW, WSL, SZ]. Geocasting and routing was studied in [SRL], improving upon the state of the art in directional based approaches. Geocasting protocols with guaranteed delivery are described in [S-g]. Generalized k-hop clustering definitions and protocols were proposed in [GSS]. Localized algorithms for detection of critical links for connectivity in ad hoc networks are described in [JHSS]. Finding minimum transmission radii and constructing minimal spanning trees was studied in [OSGG]. Physical layer impact on routing and broadcasting and relevant protocols are proposed in [SNKOV, KNS1, KNS2] which is pioneering work in the field, with expected significant impact.

Sensor networks

Sensor networks have specific challenges which differ them from wireless ad hoc networks. In [OS-inf], we consider uniformly distributed sensors, where all sensors send the same number of

reports toward the closest sink. We investigated theoretical aspects of the uneven energy depletion phenomenon recently noticed in sink-based wireless sensor networks. We describe an iterative process for determining the sizes of coronas and corresponding transmission radii. In [CGSS], we propose several localized sensor area coverage protocols, for arbitrary ratio of sensing and transmission radii. The approach has a very small communication overhead since prior knowledge about neighbor existence is not required.

We present [S-n] a simple framework for designing network layer protocols for sensor networks including localized routing, broadcasting, area coverage and so on. The framework is general enough and is applicable to variety of problems, network assumptions, and optimality criteria. Our simple framework is based on optimizing the ratio of the cost of making certain decisions, e.g., selecting forwarding neighbor for routing, and the progress made in doing so, e.g., reduction in distance to destination. We show how to apply this general guideline for the design of hop count, power aware, maximal lifetime, beaconless and physical layer based routing, minimal energy broadcasting, sensor area coverage, and multicasting protocols. Moreover, we show that, in case of routing, the best known strictly localized position based techniques are, in almost all cases, special cases of the described general cost to progress ratio paradigm.

Pervasive Computing

RFID tag identification

The wireless connectivity, essential for pervasive computing, has ephemeral character and can be used for connection with RFID tags. The seamless support for the interaction patterns in the pervasive computing poses myriad of challenges, many of which are related to multiple access problems over a shared channel. We have investigated [MNSS] RFID tag identification problem, where reader sends signals over common channel and tags compete for responses. The task is to read all tags. We have designed a hybrid scheme then applies n-ary partition protocol on the whole set, followed by binary partition on the stations that caused collision. We proved analytically that the expected number of time slots in the hybrid algorithm with known number of users is $<2.20 \cdot n$. Performance of these algorithms was also evaluated experimentally by comparing it with existing algorithms, and an improvement from $e \cdot n$ to approximately $2.15 \cdot n$ was obtained.

[SSMN]. David Simplot-Ryl, Ivan Stojmenovic, *Aleksandar Micic,* Amiya Nayak, A hybrid randomized protocol for RFID tag identification, **Sensor Review**, 26(2), 2006, 147-154.

[LBNS] Hai Liu, Miodrag Bolic, Amiya Nayak, Ivan Stojmenovic, Taxonomy and Challenges of Integration of RFID and Wireless Sensor Networks, **IEEE Network**, Nov.-Dec. 2008, 2-8, to appear.

Localization with lightweight equipment

One of currently very hot problems is to identify technology that can provide required level of precision. One application is to provide position information with few meters of accuracy in a complex of buildings (e.g. a factory), tracking workers with very light equipment, such as sensors embedded into name tags, with small readers placed on walls or floors. Another application is in monitoring movements of body parts in patients on rehabilitations, where position of markers is required to be within centimetres. The later research was initiated recently with a small internal grant, in cooperation with an engineer and a medical researcher ('3D human motion analysis').

Peer-to-peer systems, Internet, Publish-subscribe systems

In our article in the area [EPSS], we consider the fundamental problem of broadcasting, that is, sending information from one node to all the others. We first observed that a broadcasting protocol also provides solution to searching problem. We observed that existing solutions for searching in file sharing systems such as Gnutella and Kazaa are based on blind flooding, where each node sends the received information to all its neighbors. The number of messages can be drastically reduced if a local sparse structure is applied, such as RNG (relative neighborhood graph), which keeps only edges that are not the longest in any triangle, with length being measured by some available metric such as delay or distance (e.g. hop count) between nodes or supernodes. We also observed that proposed solution can replace proposed DHT (discrete hash table) file searching solutions based on overlay networks, because of difficulties in maintaining overlay network and cooperation issues (node that is assigned by hash function to store a file may not wish to do so). We argue that overlay structures may not be necessary at all, and can be replaced by simple locally defined structures such as RNG and LMST. Overlay structures tend to ignore cost associated with using a link that is in fact a path (route), assuming it is freely available over the Internet. Our solutions can also be applied in large publish-subscribe systems for sharing the information between supernodes.

Ivan Stojmenovic
Most significant contributions 1997-2005

[BMSU] Prosenjit Bose, *Pat Morin,* Ivan Stojmenovic and Jorge Urrutia, Routing with guaranteed delivery in ad hoc wireless networks, Proc. of 3rd ACM Int. Workshop on Discrete Algorithms and Methods for Mobile Computing and Communications DIAL M99, Seattle, August 20, 1999, 48-55; ACM/Kluwer Wireless Networks, 7, 6, November 2001, 609-616.

Stojmenovic introduced the problem to co-authors who are experts in computational geometry but never worked in wireless networks. The goal was to design practical routing algorithms that have guaranteed delivery of packets in ad hoc and sensor networks where each node/sensor has the same transmission radius and has only local knowledge (geographic position information of itself, its immediate neighbors), and accurate position of destination, assuming also no memorization at nodes and ideal MAC layer. Co-authors proved that previously known face routing, proposed for geometric graphs, is applicable to wireless networks model. Stojmenovic then contributed practical version, GFG (Greedy-Face-Greedy) of the protocol. Packet advances in Greedy mode, and is sent to neighbor that is closest to the destination. When a packet reaches a node *A* where greedy forwarding is impossible, the algorithm recovers by Face routing. A planar connected subgraph (e.g. Gabriel graph) can be constructed without any communication overhead. Face routing then follows faces of this planar graph which intersect imaginary line from *A* to destination, until a node closer to destination than *A* is reached. Greedy forwarding then continues. GFG protocol is scalable and has performance very close to the optimal shortest path algorithm, which assumes that each node is aware on the complete network topology. Our algorithm is widely recognized as a *breakthrough result* in the area, and was subsequently enhanced in a number of articles and applied in many tasks. The article has *over 260 citations* (self-citations are not counted here and in the other papers below) and was been widely implemented and added to most existing simulation tools. For example, a research group at Harvard described the implementation and experimental results of our protocol, renamed as GPSR and added it to ns-2, in an article at ACM MOBICOM 2000 that was additionally cited over 700 times. GFG remains the only know

framework for guaranteed delivery of localized memoryless path-based routing and is one of very few most fundamental protocols in the entire ad hoc and sensor network research domain.

[SSZ] Ivan Stojmenovic, *Mahtab Seddigh* and Jovisa Zunic, Dominating sets and neighbor elimination based broadcasting algorithms in wireless networks, IEEE Transactions on Parallel and Distributed Systems, Vol. 13, No. 1, January 2002, 14-25.

This article was selected in October 2003 issue of Thompson ISI http://esi-topics.com/fbp/fbp-october2003.html as one of *Fast Breaking Papers*. It was the only one in October 2003 for the entire computer science, and one out of four papers awarded to computer science field for the whole year 2003. Fast breaking papers are awarded bimonthly to 12-15 highly cited papers from 22 broad fields of science.

In a broadcasting task, a source node sends the same message to all the nodes in a network. In this paper, we propose a fundamental framework for broadcasting in ad hoc networks, which significantly reduces or eliminates the communication overhead. The framework is based on localized connected dominating sets and neighbor elimination. The construction and maintenance of localized dominating sets does not require any communication overhead in addition to maintaining positions of neighboring nodes, or two-hop topological information. Retransmissions by only internal nodes in a dominating set is sufficient for reliable broadcasting. We also propose to eliminate neighbors that already received the message, and re-broadcast only if the list of neighbors that might need the message is nonempty. A retransmission after negative acknowledgements scheme is also described. The important features of proposed algorithms are their reliability (reaching all nodes in the absence of message collisions), significant rebroadcast savings, and their localized and parameterless behavior. This article introduced the reliability as the goal, and subsequently has generated a growing interest in broadcasting problem. It was *cited over 300 times.*

[SL2] Ivan Stojmenovic and *Xu Lin*, Power-aware localized routing in wireless networks, IEEE Trans. on Parallel and Distr. Systems, Vol. 12, No. 11, Nov. 2001, 1122-1133.

We discussed routing algorithms for wireless networks with the goal of increasing the network and node life. Cost metric is based on the remaining node energy. We propose power, cost, and power-cost position based localized routing algorithms, where nodes make routing decisions solely on the basis of location of their neighbors and destination. Power aware localized routing algorithm attempts to minimize the total power needed to route a message between a source and a destination. Cost-aware localized algorithm is aimed at extending network's lifetime. The combined power-cost localized routing algorithm attempts to minimize the total power needed and to avoid nodes with short battery's remaining lifetime. This paper provides basis for developing power efficient localized routing algorithms with guaranteed delivery [SD], QoS, or other properties. We have recently published some improved schemes [KNS3], and these schemes are still the only known approaches for power efficient localized routing. The paper already has *over 200 citations*.

[SL1] I. Stojmenovic and *Xu Lin,* Loop-free hybrid single-path/flooding routing algorithms with guaranteed delivery for wireless networks, IEEE Transactions on Parallel and Distributed Systems, Vol. 12, No. 10, October 2001, 1023-1032.

This was the first article of Ivan Stojmenovic in the new research area of wireless networks and mobile computing. It established basis for subsequent very successful articles by introducing

proper metrics for routing in ad hoc networks. It was proven that directional based routing (published in two MOBICOM articles) is not loop-free. A thorough literature review discovered several existing routing protocols proposed in 1974-6, which are proven in this article to be loop-free, and which are modified for better performance. A loop-free hybrid routing algorithm with guaranteed delivery is described. It was argued that the independent variable should be density (average number of neighbors) and not transmission radius as in all existing articles on the problem. It was also argued to measure the performance of routing protocols in comparison with the best existing, and ideal shortest path algorithm rather than the worst existing, blind flooding protocol as it was done in existing literature. Instead of flooding based approaches exclusively discussed in literature in 1980s at the beginning of ad hoc networks 'research euphoria', this article was the first one to point to path based approach to the community, including existing 'forgotten' solutions. This article already collected *over 150 citations* (again, not counting self-citations).

[CSS] *J. Cartigny,* D. Simplot, I. Stojmenovic, Localized minimum-energy broadcasting in ad hoc networks, Proc. IEEE INFOCOM, San Francisco, CA, USA, April 1-3, 2003.

In the minimum energy broadcasting problem, nodes can adjust transmission power. The problem is to send a message from a source node to all the other nodes in the network by minimal total sum of transmission powers used by each node. There were over twenty solutions for this problem in ad hoc networks, all applying globalized solutions, where each node needs global network knowledge. However, when nodes are mobile or change between active and passive status, the communication overhead needed for maintenance of the global knowledge erases all the benefits from minimizing total power. We proposed a localized algorithm based on RNG (relative neighborhood graph), subsequently improved by us in journal version by applying local minimal spanning tree, for the problem. Our next publications then improved the performance for dense networks, and overall we have achieved, in addition to energy savings coming from localized behavior, also very competitive performance (not exceeding twice the minimum energy) of best globalized algorithm. This article is *cited over 100 times*.

Most significant contributions before 1997

Parallel algorithms

[AQS] Akl S.G., Qiu K., and Stojmenovic I., Fundamental algorithms for the star and pancake interconnection networks with applications to computational geometry, Networks, Vol. 23, 1993, 215-225.

The star and pancake networks were proposed as attractive topology for interconnecting processors. In [AQS] we presented several data communication schemes and basic algorithms for these two networks (e.g. broadcasting, prefix sums, concentration, distribution, set difference, reversing, translation), and used them to develop parallel solutions to various geometric problems. These algorithms are fundamental to the design of solutions to a host of other problems. The paper was part of Ph.D. thesis by K. Qiu and was *cited over 80 times*.

[S-honey] Stojmenović I., Honeycomb networks: Topological properties and communication algorithms, **IEEE Transactions on Parallel and Distributed Systems,** Vol. 8, No. 10, October 1997, 1036-1042.

The honeycomb mesh, based on hexagonal plane tessellation, is considered as a multiprocessor interconnection network. A honeycomb mesh network has 25% smaller degree and 18.5% percent smaller diameter than the mesh-connected computer with approximately the same number of nodes. Vertex and edge symmetric honeycomb torus network is obtained by adding wraparound edges to the honeycomb mesh. The network cost, defined as the product of degree and diameter, is better for honeycomb networks than for the two other families based on square (mesh-connected computers and tori) and triangular (hexagonal meshes and tori) tessellations. A convenient addressing scheme for nodes is introduced which provides simple computation of shortest paths and the diameter. Simple and optimal (in the number of required communication steps) routing, broadcasting, and semigroup computation algorithms are developed. In addition to honeycomb meshes bounded by a regular hexagon, we consider also honeycomb networks with rhombus and rectangle as the bounding polygons. This article is cited *over 60 times.*

Computational chemistry

[TMSBCC] Tosic R., Masulovic D., Stojmenovic I., Brunvoll J., Cyvin B.N. and Cyvin S.J., Enumeration of Polyhex Hydrocarbons to h=17, Journal of Chemical Information and Computer Sciences, 35, 2, 1995, 181-187.
[STD] Stojmenovic I., Tosic R., Doroslovacki R., Generating and counting hexagonal systems, Sixth Yugoslav Seminar on Graph Theory, Dubrovnik, 1985, Inst. Math., Univ. Novi Sad, 1986, 189-198. *{50 citations}*
The problem of enumerating fusenes and benzenoid (or polyhex) hydrocarbons (i.e. figures composed from regular hexagons) has been studied in hundreds of papers in chemical literature. The main data are the number of polyhexes with given number *h* of hexagons and the classification according to various parameters like perimeter, symmetry etc. The tables obtained by computer means reveal important properties of these structures (e.g. stability and color excess) and are used to derive further results in chemical literature. In 1987, Stojmenovic, Tosic and Doroslovacki [STD] computed these tables for *h*=11 (141229 in total). This was done using a computer program written by Stojmenovic, and run on a fast computer in Japan, during his stay in 1985/86. This paper and its results, despite being published only in a national conference [STD], were highly cited in chemical literature. It has made significant impact in this area. For example, J.R. Dias, J. Chem.Inf.&Comp.Sci., 30, 1990, 251-156:' The recent availability of the benzenoid isomer table of Stojmenovic and co-workers has allowed us to deduce isomer numbers that were heretofore unknown'. Our tables were copied in several chemical books (e.g. I. Gutman, S.J. Cyvin, Introduction to the Theory of Benzenoid Hydrocarbons, Springer-verlag, 1989, pp. 40-43; Topics in Current Chemistry, Vol. 162, 1992, and Vol. 166, 1993). A combined effort of a team from Serbia, Canada, and Norway [TMSBCC] extended the tables to *h*=17. The topic is still active among researchers, with current (January 2004) enumeration record at *h*=27 and current count record at *h*=35.

[S-bsr] Stojmenovic I., Constant time BSR solutions to parenthesis matching, tree decoding and tree reconstruction from its traversals, IEEE Transactions on Parallel and Distributed Systems, Vol. 7, No. 2, Feb. 1996, 218-224. {30 citations}

BSR (broadcasting with selective reduction) is more powerful than any CRCW PRAM and yet requires no more resources for implementation than even EREW PRAM. The model allows constant time solutions to sorting, parallel prefix and other problems. In this paper, constant time simple solutions to problems listed in the paper title were presented. These were the first constant time solutions to these problems on any model of computation. The number of processors used is equal to the input size, for each problem. A new algorithm for sorting integers is also presented. This paper was cited in over 25 papers, including L. Xiang, K. Ushijima, On time bounds, the work-time scheduling principle, and optimality for BSR, IEEE Trans. Par. Distr. Systems 12, 2001, 912-921, which contains solutions to some open problems given in my article. In addition to the group from Japan, another group from France (Ph.D. thesis by D. Seme), was particularly inspired by this paper to continue the research on BSR.