Matthieu Bloch

Biography: Matthieu Bloch is an Associate Professor in the School of Electrical and Computer Engineering. He received the Engineering degree from Supélec, Gif-sur-Yvette, France, the M.S. degree in Electrical Engineering from the Georgia Institute of Technology, Atlanta, in 2003, the Ph.D. degree in Engineering Science from the Université de Franche-Comté, Besançon, France, in 2006, and the Ph.D. degree in Electrical Engineering from the Georgia Institute of Technology in 2008. In 2008-2009, he was a postdoctoral research associate at the University of Notre Dame, South Bend, IN. Since July 2009, Dr. Bloch has been on the faculty of the School of Electrical and Computer Engineering, and from 2009 to 2013 Dr. Bloch was based at Georgia Tech Lorraine. His research interests are in the areas of information theory, error-control coding, wireless communications, and cryptography. Dr. Bloch is a member of the IEEE and has served on the organizing committee of several international conferences; he was the chair of the Online Committee of the IEEE Information Theory Society from 2011 to 2014. He is the co-recipient of the IEEE Communications Society and IEEE Information Theory Society 2011 Joint Paper Award and the co-author of the textbook Physical-Layer Security: From Information Theory to Security Engineering published by Cambridge University Press.

Web site: http://users.ece.gatech.edu/mbloch/

Selected Publications:

Andrew Eckford

Biography: Andrew Eckford is an Associate Professor in the Department of Electrical Engineering and Computer Science at York University, Toronto, Ontario. He received the B.Eng. degree from the Royal Military College of Canada in 1996, and the M.A.Sc. and Ph.D. degrees from the University of Toronto in 1999 and 2004, respectively, all in Electrical Engineering. Andrew held postdoctoral fellowships at the University of Notre Dame and the University of Toronto, prior to taking up a faculty position at York in 2006. Andrews research interests include the application of information theory to nonconventional channels and systems, especially the use of molecular and biological means to communicate. Andrew's research has been covered in media including The Economist and The Wall Street Journal, and was a finalist for the 2014 Bell Labs Prize. Andrew is also a co-author of the textbook Molecular Communication, published by Cambridge University Press.

Web site: http://www.andreweckford.com/

Selected Publications:

Peter Harremoës

Biography: Peter Harremoës (PH) was born 25/5 1964 in Hellerup, Denmark. In the period 1970–1982 PH was in elementary school and later in high school. PH started as student at University of Copenhagen 1982 studying mathematics and physics. After finishing first year physics he changed to Nordic archaeology and got a bachelor degree in this subject 1986.

He became Master of Science Jan. 1989. The title of his thesis was “Information Theory applied in Probability Theory” with Flemming Topsøe as supervisor. He started his Ph.D. study at Math. Dept., University of Copenhagen but changed to IMFUFA, Roskilde University where he received the Ph.D. degree 1993. The title of his Ph.D. thesis was “Time and Conditional Independence” with Jeppe Dyre (physicist) as supervisor. In the period 1993–1997 PH worked as mountaineer, wrote 7 books and worked organizing climbing and mountain sport at the national and international level. He has been member of the safety commission of the International Climbing and Mountaineering Federation UIAA and president of Danish Climbing Federation (6,500 members).

In the period 1997–2001 PH was employed as a high school teacher in mathematics. In the period 2001–2005 PH was affiliated with Mathematical Department, University of Copenhagen and financed from various sources. The main source has been Villum Kann Rasmussen Foundation that financed a post doc. position. The subjects of his work are information theory and its applications, statistics, quantum information theory and Bayesian networks. In the period Aug.–Oct. 2003 he was financed by the MaPhySto project. In the period Nov. 2003–Jan. 2004 he worked as research fellow at Zentrum Für Interdisziplinäre Forschung, Universität Bielefeld in the project “General theory of information transfer and Combinatorics”. In the period July–Dec. 2005 he was financed from Mathematical Department. He also received grants from INTAS Project 00-738, and the Danish Natural Science Research Council. From 2006 to 2009 he was employed at Centrum Wiskunde & Informatika (National Research Institute for Mathematics and Computer Science), Amsterdam, as scientific staff member in the research group Quantum Computing and Advanced Systems Research. Since 2009 he has been affiliated with Niels Brock, Copenhagen Business College teaching in mathematics.

PH is editor of the journal Entropy and was Editor-in-Chief 2007–2011. He is reviewer for a large number of scientific journals and has acted as guest editor and editor of proceedings. PH has been member of IEEE since 2000 and was elevated as senior member in 2016.

Web site: http://www.harremoes.dk/Peter/

Selected Publications:


Negar Kiyavash

Biography: Negar Kiyavash is Willett Faculty Scholar at the University of Illinois at Urbana-Champaign. She is a joint Associate Professor of Industrial and Enterprise Engineering and Electrical and Computer Engineering. She is also affiliated with the Coordinated Science Laboratory (CSL) and the Information Trust Institute. She received her Ph.D. degree in electrical and computer engineering from the University of Illinois at Urbana-Champaign in 2006. Her research interests are in design and analysis of algorithms for network inference and security. She is a recipient of National Science Foundations CAREER and The Air Force Office of Scientific Research Young Investigator awards, and the Illinois College of Engineering Deans Award for Excellence in Research.

She has served on the technical program committee of the IEEE International Symposium on Information Theory (ISIT) and as its finance chair. She is a member of the organizing committee for the Allerton Conference on Communication, Control, and Computing and has organized invited sessions for both Allerton and Information Theory Workshops (ITWs). She served as a member of the Ad-hoc Committee to Review Structure of the Membership & Chapters Committee (MCC) in 2013. She was the committee chair for Women in the Information Theory Society (WIThITS), the representative of the IT Society in Women in Engineering (WIE), and a member of the IT Society Membership and Chapters Committee from 2012 to 2015.

Web site: https://sites.google.com/site/negarkiyavash/

Selected Publications:


Richard J. La

Biography: Richard J. La received his B.S.E.E. from the University of Maryland, College Park in 1994 and M.S. and Ph.D. degrees in Electrical Engineering from the University of California, Berkeley in 1997 and 2000, respectively. From 2000 to 2001 he was with the Mathematics of Communication Networks group at Motorola Inc. Since 2001 he has been on the faculty of the Department of Electrical and Computer Engineering at the University of Maryland, College Park, where he is currently a Professor.


Web site: http://www.ece.umd.edu/~hyongla/index.shtml

Selected Publications:


Patrick Mitran

Biography: Patrick Mitran received the Bachelor’s and Master’s degrees in electrical engineering, in 2001 and 2002, respectively, from McGill University, Montreal, PQ, Canada, and the Ph.D. degree from the Division of Engineering and Applied Sciences, Harvard University, Cambridge, MA, in 2006. In 2005, he interned as a research scientist for Intel Corporation in the Radio Communications Lab. In 2006–07 he was an applied mathematics lecturer in the School of Engineering and Applied Sciences, Harvard University. He is currently an Associate Professor in the Department of Electrical and Computer Engineering at the University of Waterloo, Waterloo, Ontario, Canada. His research interests are in the areas of information theory, wireless communications and signal processing. Dr. Mitran is a licensed Professional Engineer in the Province of Ontario and was awarded the Government of Ontario Early Researcher Award in 2011. He has served as an Editor for the IEEE TRANSACTIONS ON COMMUNICATIONS in the area of Networking and Cross-Layer Design from 2013-2016.

Web site: https://ece.uwaterloo.ca/~pmitran/

Selected Publications:


Michael J. Neely

Biography: Michael J. Neely received B.S. degrees in both Electrical Engineering and Mathematics from the University of Maryland, College Park, in 1997. He was then awarded a 3 year Department of Defense NDSEG Fellowship for graduate study at the Massachusetts Institute of Technology, where he received an M.S. degree in 1999 and a Ph.D. in 2003, both in Electrical Engineering. He joined the faculty of Electrical Engineering at the University of Southern California in 2004, where he is currently an Associate Professor. His research interests are in the areas of stochastic network optimization and queueing theory, with applications to wireless networks, mobile ad-hoc networks, and switching systems. Michael received the NSF Career award in 2008 and the Viterbi School of Engineering Junior Research Award in 2009. He is a member of Tau Beta Pi and Phi Beta Kappa.

Web site: http://www-bcf.usc.edu/~mjneely/

Selected Publications:

Vinod M. Prabhakaran

Biography: Vinod M. Prabhakaran received the M.E. degree from the Indian Institute of Science, Bangalore in 2001 and the Ph.D. degree from the University of California, Berkeley in 2007. He was a Postdoctoral Researcher at the Coordinated Science Laboratory, University of Illinois, Urbana-Champaign from 2008 to 2010 and at Ecole Polytechnique Federale de Lausanne, Switzerland in 2011. Since 2011, he has been a Reader at the School of Technology and Computer Science at the Tata Institute of Fundamental Research, Mumbai. His research interests are in information theory, cryptography, communications, and signal processing.

He has received a commendation from the senate of IISc, Bangalore, the Tong Leong Lim Pre-Doctoral Prize and the Demetri Angelakos Memorial Achievement Award from the EECS Department, University of California, Berkeley, and the Ramanujan Fellowship from the Department of Science and Technology, Government of India.

Web site: http://www.tcs.tifr.res.in/~vinodmp/

Selected Publications:


Aditya Ramamoorthy

Biography: Aditya Ramamoorthy is an Associate Professor of Electrical and Computer Engineering at Iowa State University. He received his B. Tech. degree in Electrical Engineering from the Indian Institute of Technology, Delhi in 1999 and the M.S. and Ph.D. degrees from the University of California, Los Angeles (UCLA) in 2002 and 2005 respectively. He was a systems engineer at Biomorphic VLSI Inc. till 2001. From 2005 to 2006 he was with the data storage signal processing group at Marvell Semiconductor Inc. His research interests are in the areas of network information theory, channel coding and signal processing for bioinformatics and nanotechnology. Dr. Ramamoorthy served as an editor for the IEEE Transactions on Communications since from Nov. 2011–Feb. 2015. He is the recipient of the 2012 Iowa State University’s Early Career Engineering Faculty Research Award, the 2012 NSF CAREER award, and the Harpole-Pentair professorship in 2009 and 2010.

Web site: http://www.ece.iastate.edu/~adityar/

Selected Publications:

Atri Rudra

Biography: Atri Rudra is an Associate Professor of Computer Science and Engineering at University at Buffalo, State University of New York, Buffalo. Atri received his Bachelor's degree from the Indian Institute of Technology, Kharagpur, India in 2000 and his PhD from University of Washington in 2007. From 2000 to 2002, he was a Research Staff Member at IBM India Research Lab, New Delhi, India.

His research interests lie in theoretical computer science and in particular, theory of error-correcting codes, database algorithms, sub-linear algorithms, computational complexity, finite field theory and applications. He is a recipient of an NSF CAREER award (2009), HP Labs Innovation Research Award (2010), ESA best paper award (2010), UB Exceptional Scholars - Young Investigator award (2011), IBM Faculty Award (2013), UB SEAS Senior Faculty Teacher the Year award (2015) and PODS best paper awards (2012 and 2016).

Web site: http://www.cse.buffalo.edu/faculty/atri/

Selected Publications:

Parastoo Sadeghi

Biography: Parastoo Sadeghi received the BE and ME degrees in electrical engineering from Sharif University of Technology, Tehran, Iran, in 1995 and 1997, respectively, and the PhD degree in electrical engineering from the University of New South Wales, Sydney, Australia, in 2006. She is currently an Associate Professor at the Research School of Engineering, the Australian National University, Canberra, Australia. From 1997 to 2002, she worked as a Research Engineer and then as a Senior Research Engineer at Iran Communication Industries (ICI) in Tehran, Iran and at Deqx (formerly known as Clarity Eq) in Sydney, Australia.

Dr. Sadeghi has been a Senior Member of the IEEE since 2007. She has co-authored one book, 40 peer-reviewed journal articles and around 100 peer-reviewed conference papers (mainly in top IEEE journals and conferences). In 2014, she served as a Guest Editor of the IEEE Journal on Selected Areas in Communications (JSAC), Special Issue on Wireless Network Coding, published in February 2015. In 2015, she served as the TPC Co-chair of the IEEE Int. Symposium on Network Coding (Netcod). In 2014 and 2016 she also served as a TPC member of Netcod. She has served as a TPC member or as an organizing committee member of a number of conferences including ISIT 2011, ITW 2014, ICC, WCNC, and AusCTW. She is a regular reviewer for top IEEE journals and conferences, such as IEEE Transactions on Information Theory, IEEE/ACM Transactions on Networking, IEEE Transactions on Communications, IEEE Transactions on Wireless Communications, ISIT, and ICC. She has also served as an external examiner of 7 PhD theses.

Her research interests are mainly in the areas of network coding, information theory, wireless communication systems theory, and signal processing theory.


Selected Publications:


Aslan Tchamkerten

Biography: Aslan Tchamkerten received his engineer physicist diploma in 2000 and his Ph.D. degree in communications in 2005, both from EPFL. Between 2005 and 2008 he was a postdoctoral associate at MIT. In 2008 he joined Telecom ParisTech where he is currently associate professor in the department of communications and electronics. In 2009, he won a junior chair of excellence from the french national research agency. During 2014–2015 he was on sabbatical at Stanford university and earlier this year he was the general chair of the thematic program “Nexus of Information and Computation Theories” held at the Institut Henri Poincaré.

Web site: http://perso.telecom-paristech.fr/~tchamker/

Selected Publications:

Shun Watanabe

Biography: Shun Watanabe received B.E., M.E., and Ph.D. degree from Tokyo Institute of Technology in 2005, 2007, 2009, respectively. During April 2009 to February 2015, he was an assistant professor of the Department of Information Sciences and Intelligence Systems at the University of Tokushima. During April 2013 to March 2015, he was a visiting assistant professor of the Institute for Systems Research at the University of Maryland, College Park. Since February 2015, he has been an associate professor of the Department of Computer and Information Sciences at Tokyo University of Agriculture and Technology. During March to April 2016, he was a visiting fellow at the Institute of Henri Poincaré.

He has been working in various research fields including quantum information/cryptography, information theoretic security, and multi-terminal information theory. His current research interest lies in the intersection of information theory, cryptography, and computer science.

Web site: https://sites.google.com/site/shunwatanabeshomepage/

Selected Publications: