2018 IEEE Information Theory Society
Board of Governors Election

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Albert Guillen
Matthieu Bloch
Suhas Diggavi
Stark Draper
Sidharth Jaggi
Navin Kashyap
Yingbin Liang
Olgica Milenkovic
Prakash Narayan
Jong-Seon No
Henry Pfister
Vincent Tan

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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 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, and he has been on the Board of Governors of the IEEE Information Theory Society and an Associate Editor for the IEEE Transactions on Information since 2016. 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.
Suhas N. Diggavi received the B. Tech. degree in electrical engineering from the Indian Institute of Technology, Delhi, India, and the Ph.D. degree in electrical engineering from Stanford University, Stanford, CA, in 1998. After completing his Ph.D., he was a Principal Member Technical Staff in the Information Sciences Center, AT&T Shannon Laboratories, Florham Park, NJ. After that he was on the faculty of the School of Computer and Communication Sciences, EPFL, where he directed the Laboratory for Information and Communication Systems (LICOS). He is currently a Professor, in the Department of Electrical and Computer Engineering, at the University of California, Los Angeles, where he directs the Information Theory and Systems laboratory.

His research interests include information theory and its applications to several areas including wireless networks, cyber-physical systems, distributed computation and learning, security and privacy, genomics, data compression; more information can be found at http://licos.ee.ucla.edu. He has over 250 publications in journals, conferences and book contributions, as well as 8 issued patents on these topics; more information can be found at http://licos.ee.ucla.edu. He has received several recognitions for his research including the 2013 IEEE Information Theory Society & Communications Society Joint Paper Award, the 2013 ACM International Symposium on Mobile Ad Hoc Networking and Computing (MobiHoc) best paper award, the 2006 IEEE Donald Fink prize paper award, 2005 IEEE Vehicular Technology Conference best paper award and the Okawa foundation research award.

He is a Fellow of the IEEE. His service for IEEE includes serving on the editorial board for Transactions on Information Theory, ACM/IEEE Transactions on Networking, IEEE Communication Letters, as a guest editor for IEEE Selected Topics in Signal Processing and in the program committees of several IEEE conferences. He has also helped organize IEEE conferences including serving as the Technical Program Co-Chair for 2012 IEEE Information Theory Workshop (ITW) and the Technical Program Co-Chair for the 2015 IEEE International Symposium on Information Theory (ISIT). In these roles he has co-developed new ideas in the structure of the conferences. For example in the 2015 ISIT, a new semi-plenary session structure was introduced, and the quantitative feedback from conference attendees was positive to this experiment. In the 2012 ITW, a new poster structure, with plenary spotlights for each poster (without any hierarchy) was introduced. He is also the general co-chair for the 2018 ACM Symposium on Mobile Ad Hoc Networking and Computing (ACM Mobihoc). He recently served as a Distinguished Lecturer for the IT Society. He currently serves on board of governors for the IEEE Information Theory Society, As part of
this role, he has been active in co-developing video content for the IEEE Information theory society, some of which is now available on YouTube, and is heading the new initiative "IT Channel" that will feature talks from prominent researchers as well as historical video content.

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**Stark Draper** is a Professor of Electrical and Computer Engineering at the University of Toronto (UofT). He was an Associate Professor at the University of Wisconsin, Madison. As a research scientist he has worked at the Mitsubishi Electric Research Labs (MERL), Disney's Boston Research Lab, Arraycomm Inc., the C. S. Draper Laboratory, and Ktaadn Inc. He completed postdocs at the University of Toronto and the University of California, Berkeley. He received the M.S. and Ph.D. degrees from the Massachusetts Institute of Technology (MIT), and the B.S. and B.A. degrees in electrical engineering and history from Stanford University. His research interests include information theory and error-correction coding, optimization and machine learning, and the application of these disciplines to computer architecture.

Dr. Draper has received the NSERC Discovery Award, the NSF CAREER Award, the 2010 MERL President's Award, and teaching awards from the UofT, the University of Wisconsin, and MIT. He received an Intel Graduate Fellowship, Stanford’s Frederick E. Terman Engineering Scholastic Award, and a U.S. State Department Fulbright Fellowship. In terms of service, he chaired the 2014 North American School for Information Theory (NASIT’14), chairs the new “Machine Intelligence” major in UofT’s Department of Engineering Science, serves on the Dean’s Executive Committee in his role as Chair of Undergraduate Admissions at the faculty and department levels at UofT, has served as a guest editor for the J. Special Topics in Signal Processing, chairs the Information Theory Society (ITSoc) Schools Committee, and has served on the ITSoc Board of Governors as Secretary to the Board since 2016. He also served as the president of the board at his daughter’s parent-run daycare in Madison, Wisconsin.

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**Albert Guillén i Fàbregas** was born in Barcelona in 1974. In 1999 he received the Telecommunication Engineering Degree and the Electronics Engineering Degree from Universitat Politècnica de Catalunya and Politecnico di Torino, respectively, and the Ph.D. in Communication Systems from Ecole Polytechnique Fédérale de Lausanne (EPFL) in 2004. Since 2011 he has been a Research Professor of the Institució Catalana de Recerca i Estudis Avançats (ICREA) at the Department of Information and Communication Technologies, Universitat Pompeu Fabra. He is also Adjunct Research
Faculty at the Department of Engineering, University of Cambridge, where he was a Reader and a Fellow of Trinity Hall. He has held appointments at the New Jersey Institute of Technology, Telecom Italia, European Space Agency (ESA), Institut Eurécom, University of South Australia, as well as visiting appointments at Ecole Nationale des Télécommunications (Paris), Universitat Pompeu Fabra, University of South Australia, Centrum Wiskunde & Informatica and Texas A&M University in Qatar. His research interests are in information theory, coding theory and communication theory.

Dr. Guillén i Fàbregas received the Starting and Consolidator Grants from the European Research Council, the Young Authors Award of the 2004 European Signal Processing Conference, the 2004 Best Doctoral Thesis Award from the Spanish Institution of Telecommunications Engineers, and a Research Fellowship of the Spanish Government to join ESA. He is an Associate Editor of the IEEE Transactions on Information Theory and of the Foundations and Trends in Communications and Information Theory, Now Publishers. He was a General Co-Chair of the 2016 IEEE International Symposium on Information Theory, held in Barcelona. He is also a Senior Member of IEEE, a member of the Young Academy of Europe and was an Editor of the IEEE Transactions on Wireless Communications (2007-2011).

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Sidharth Jaggi received his Bachelor of Technology degree from the Indian Institute of Technology in 2000, and his Master of Science and Ph.D. degrees from the California Institute of Technology in 2001 and 2006 respectively, all in electrical engineering. He was awarded the Caltech Division of Engineering Fellowship 2001-'02, and the Microsoft Research Fellowship for the years 2002-’04. He interned at Microsoft Research, (Redmond, WA, USA) in the summers of 2002-'03. He spent 2006 as a Postdoctoral Associate at the Laboratory of Information and Decision Systems at the Massachusetts Institute of Technology. He joined the Department of Information Engineering, the Chinese University of Hong Kong in 2007. Sidharth's research interests lie at the intersection of information theory, algorithms, and networking. His research group thus (somewhat unwillingly) calls itself the CAN-DO-IT team (Codes, Algorithms, Networks: Design and Optimization for Information Theory). He is currently particularly interested in covert communication, adversarial communication, and group testing problems. He has served as an Associate Editor for Coding for the IEEE Transactions on Information Theory, was invited to present the 2018 Prof. R. Narasimhan Memorial Award lecture, and won several teaching awards. He has organized summer schools in information theory in Hong Kong in 2014, 2015 and 2017,
and served in various organizational/TPC position in a variety of IT Society workshops and conferences, and the HK chapter of the IT Society.

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**Navin Kashyap** received a B.Tech. degree in Electrical Engineering from the Indian Institute of Technology, Bombay, in 1995, an M.S. in Mathematics and a Ph.D. in Electrical Engineering from the University of Michigan, Ann Arbor, in 2001. After a two-year postdoctoral stint at the University of California, San Diego, he joined the faculty of the Department of Mathematics and Statistics at Queen's University, Kingston, Ontario, Canada, where he remained till December 2010. Thereafter, he has been with the Department of Electrical Communication Engineering at the Indian Institute of Science, where he is currently a Professor. His research interests lie primarily in the application of combinatorial and probabilistic methods in information and coding theory.

Prof. Kashyap served on the editorial board of the IEEE Transactions on Information Theory during the period 2009-2014. He served on the Awards Committee of the IEEE Information Theory Society during 2014-15. He has been appointed as a Distinguished Lecturer of the Society for 2017-2018. He has been actively involved in organizing several workshops, conferences, and schools in India, in the broad areas of information theory, communications, and signal processing. He is a recipient of the Swarnajayanti Fellowship awarded by the Department of Science and Technology, Government of India. He is at present an Associate Editor for the SIAM Journal on Discrete Mathematics, and is an active reviewer for the Mathematical Reviews database.

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**Dr. Yingbin Liang** (S'01–M'05-SM'16) received the Ph.D. degree in Electrical Engineering from the University of Illinois at Urbana-Champaign in 2005. In 2005-2007, she was working as a postdoctoral research associate at Princeton University. In 2008-2009, she was an assistant professor at University of Hawaii. In 2010-2017, she was an assistant and then an associate professor at Syracuse University. Since August 2017, she has been an associate professor at the Department of Electrical and Computer Engineering at the Ohio State University. Dr. Liang’s research interests include information theory, machine learning, statistical signal processing, optimization, and wireless communication and networks.

Dr. Liang was a Vodafone Fellow at the University of Illinois at Urbana-Champaign during 2003-2005, and received the Vodafone-U.S. Foundation Fellows Initiative Research Merit Award in 2005. She also received the M. E. Van Valkenburg Graduate Research Award from the ECE department, University of Illinois at Urbana-Champaign,
In 2005. In 2009, she received the National Science Foundation CAREER Award, and the State of Hawaii Governor Innovation Award. In 2014, she received EURASIP Best Paper Award for the EURASIP Journal on Wireless Communications and Networking.

She served on Information Theory Society Award Committee during 2015-2016. She served as an Associate Editor for the Shannon Theory of the IEEE Transactions on Information Theory during 2013-2015, as a Guest Editor for the Proc. IEEE, Special Issue on Physical Layer Security and its Applications in 2014, and as a Guest Editor for Journal of Communications and Networks, Special Issue on Physical Layer Security in 2012. She also served as a TPC member for ISIT in a number of years, and as a TPC member for various other conferences including ITW, ISITA, GLOBECOM, ICC, etc. She co-organized DIMACS Workshop on Information Theoretic Network Security in 2012, and co-organized numerous invited special sessions in various conferences including ICASSP, Asilomar Conference, and Allerton Conference.

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**Olgica Milenkovic** is a professor of Electrical and Computer Engineering at the University of Illinois, Urbana-Champaign (UIUC), and Research Professor at the Coordinated Science Laboratory. She obtained her Masters Degree in Mathematics in 2001 and PhD in Electrical Engineering in 2002, both from the University of Michigan, Ann Arbor. Prof. Milenkovic heads a group focused on addressing unique interdisciplinary research challenges spanning the areas of algorithm design and computing, bioinformatics, coding theory, machine learning and signal processing. Her scholarly contributions have been recognized by multiple awards, including the NSF Faculty Early Career Development (CAREER) Award, the DARPA Young Faculty Award, the Dean's Excellence in Research Award, and several best paper awards. In 2013, she was elected a UIUC Center for Advanced Study Associate and Willett Scholar while in 2015 she was elected a Distinguished Lecturer of the Information Theory Society. In 2018 she became an IEEE Fellow. She has served as Associate Editor of the IEEE Transactions of Communications, the IEEE Transactions on Signal Processing, the IEEE Transactions on Information Theory and the IEEE Transactions on Molecular, Biological and Multi-Scale Communications. In 2009, she was the Guest Editor in Chief of a special issue of the IEEE Transactions on Information Theory on Molecular Biology and Neuroscience.

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**Prakash Narayan** received the Bachelor of Technology degree in Electrical Engineering from the Indian Institute of Technology, Madras, in 1976, and the M.S. and
D.Sc. degrees in Systems Science and Mathematics, and Electrical Engineering, respectively, from Washington University, St. Louis, MO, in 1978 and 1981.

He is Professor of Electrical and Computer Engineering at the University of Maryland, College Park, with a joint appointment at the Institute for Systems Research. He has held visiting appointments at ETH, Zurich; Technion, Haifa; Alfréd Rényi Institute of the Hungarian Academy of Sciences, Budapest; University of Bielefeld; Institute of Biomedical Engineering (formerly LADSEB), Padova; and Indian Institute of Science, Bangalore.

Narayan has served as Associate Editor for Shannon Theory, Executive Editor and Editor-in-Chief of the IEEE Transactions on Information Theory; and as member of the Board of Governors and committees of the Information Theory Society. He is a Fellow of the IEEE.

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**Jong-Seon No** (S’80-M’88-SM’10-F’12) received the B.S. and M.S.E.E. degrees in electronics engineering from Seoul National University, Seoul, Korea, in 1981 and 1984, respectively, and the Ph.D. degree in electrical engineering from University of Southern California, Los Angeles, CA, in 1988. He became a Fellow of the IEEE in Research Engineer/Scientist through IEEE Information Theory Society, November 2011. He also became a Senior Member of the National Academy of Engineering of Korea (NAEK), 2015. He was with Hughes Network Systems, Germantown, Maryland, as a Senior MTS in 1988-1990 and with Konkuk University, Seoul, Korea, as an Associate Professor in 1990-1999. He joined the faculty of the Department of Electrical and Computer Engineering, Seoul National University, Seoul, Korea, in August 1999, where he is currently a Full Professor.

He was the founding Chair of the Information Theory Chapter of IEEE Seoul Section in 1996-2009. He was a recipient of IEEE Information Theory Society Chapter of the Year Award in 2007. From January 2012, he has been serving as the Co-Editor-in-Chief of the Journal of Communications and Networks (JCN) in support of the Editor-in-Chief, Prof. Vince Poor. He was a Publication Co-Editor of S.W. Golomb’s 70th Birthday Symposium held in Los Angeles, in 2002. He was a General Co-Chair of Sequences and Their Applications (SETA 2004) in 2004 and was a General Co-Chair of International Symposium on Information Theory and Its Applications (ISITA 2006) held in Seoul Korea, in 2006. He also served as a General Co-Chair of International Symposium on Information Theory (ISIT 2009) held in COEX, Seoul Korea, in 2009. Within the Korean Institute of Communications and Information Sciences (KICS), he is
the founding Chair of the Coding and Information Theory Technical Committee and he also served as a President for KICS in 2015. He was the Director of the Information Technology Research Center for Next Generation Wireless Communications, Seoul National University in 2000-2006. His area of research interests includes sequences, LDPC codes, index codes, coded caching, coding for distributed storage systems, MIMO interference alignment, and cryptography.

Henry D. Pfister received his Ph.D. in electrical engineering in 2003 from the University of California, San Diego and is currently an associate professor in the Electrical and Computer Engineering Department of Duke University with a secondary appointment in Mathematics. Prior to that, he was a professor at Texas A&M University (2006-2014), a post-doctoral fellow at the École Polytechnique Fédérale de Lausanne (2005-2006), and a senior engineer at Qualcomm Corporate R&D in San Diego (2003-2004). His current research interests include information theory, communications, probabilistic graphical models, and machine learning.

He received the NSF Career Award in 2008 and a Texas A&M ECE Department Outstanding Professor Award in 2010. He is a coauthor of the 2007 IEEE COMSOC best paper in Signal Processing and Coding for Data Storage and a coauthor of a 2016 Symposium on the Theory of Computing (STOC) best paper. He served as an Associate Editor for the IEEE Transactions on Information Theory (2013-2016) and a Distinguished Lecturer of the IEEE Information Theory Society (2015-2016). He was the general chair of the 2016 North American School of Information Theory and regularly serves on the technical program committees of international conferences such as ISIT, ITW, and ISTC.

Vincent Y. F. Tan was born in Singapore in 1981. He is currently an Associate Professor in the Department of Electrical and Computer Engineering (ECE) and the Department of Mathematics at the National University of Singapore (NUS). He received the B.A. and M.Eng. degrees in Electrical and Information Sciences from Cambridge University in 2005. He received the Ph.D. degree in Electrical Engineering and Computer Science (EECS) from the Massachusetts Institute of Technology in 2011. During his Ph.D. studies, he spent two summers at Microsoft Research—the Machine Learning and Perception group in Cambridge, U.K. in 2008 and the E-Science group in Los Angeles, CA in 2009. He was a postdoctoral researcher in the Department of ECE at the University of Wisconsin-Madison in 2011 and following that, a scientist at the
Institute for Infocomm Research (I2R), A*STAR, Singapore from 2012 to 2013. His research interests include information theory, machine learning and statistical signal processing.

Dr. Tan has received several awards including the MIT EECS Jin-Au Kong outstanding doctoral thesis prize in 2011; the A*STAR Philip Yeo prize for outstanding achievements in research in 2012; the NUS Young Investigator Award in 2014; the Engineering Young Researcher Award in the Faculty of Engineering, NUS in 2018; and the Singapore National Research Foundation (NRF) Fellowship (Class of 2018). He is a Distinguished Lecturer of the IEEE Information Theory Society (2018/19). He was also placed in the NUS Faculty of Engineering Teaching commendation list from 2015 to 2017.

He has authored a research monograph titled “Asymptotic Estimates in Information Theory with Non-Vanishing Error Probabilities” in the Foundations and Trends® in Communications and Information Theory Series (NOW Publishers). A Senior Member of the IEEE, he served as a member of the IEEE “Machine Learning for Signal Processing” Technical Committee within the IEEE Signal Processing Society. He is currently serving as an Associate Editor for the IEEE Transactions on Signal Processing and has served as an Associate Editor of the IEEE Transactions on Communications. He is also a Guest Editor of the Special Issue on “Information-Theoretic Methods in Data Acquisition, Analysis, and Processing” of the IEEE Journal on Selected Topics in Signal Processing. He is serving on the outreach and mentoring committee for the IEEE Information Theory Society. He will serve on the NUS Faculty (of Engineering) Promotion and Tenure Committee (FPTC) in 2018/9.

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