

# IEEE Information Theory Society Newsletter

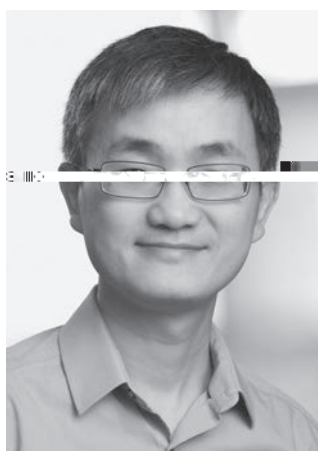


Vol. 71, No. 3, September 2021

EDITOR: Changho Suh

ISSN 1059-2362

## President's Column



*(continued on page 8)*

I hope you have enjoyed the summer in particular with ISIT, as well as with some of the IT Schools, all of which were held viturally due to the continuing pandemic. We start this fall issue with the president's column sharing ISIT's highlights and interesting stroies behind the prestigious awards given and/or announced at the event. We then feature IEEE society-level awards given to members of our society. Next we have an article on the activities of the IEEE Information Theory Society Guangzhou Chapter who received the 2021 Chapter of the Year award. We also

As a reminder, announcements, news, and events intended for both the printed newsletter and the website, such as award announcements, calls for nominations, and upcoming conferences, can be submitted at the IT Society website <http://www.itsoc.org>. Articles and columns can be e-mailed to me at [chsuh@kaist.ac.kr](mailto:chsuh@kaist.ac.kr) with a subject line that includes the phrase "IT newsletter."

The next few deadlines are:

October 31, 2021 for the issue of December 2021.

January 31, 2022 for the issue of March 2022.

April 30, 2022 for the issue of June 2022.

Please submit plain text, LaTeX, or Word source files; do not worry about fonts or layout as this will be taken care of by IEEE layout specialists. Electronic photos and graphics should be in high resolution and sent as separate files.

*Changho Suh*

## IEEE Information Theory Society Newsletter

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## Awards

**Congratulations** to the members of our community that have recently received recognition for their exceptional contributions.

### **Raymond W. Yeung: 2022 Claude E. Shannon Award**

The Claude E. Shannon Award is the highest honor from the IEEE Information Theory Society. The award has been instituted to honor consistent and profound contributions to the field of information theory.

### **Gerhard Kramer: 2021 Aaron D. Wyner Distinguished Service Award**

The Aaron D. Wyner Distinguished Service Award of the IT Society has been instituted to honor an individual who has shown outstanding leadership in, and provided long-standing, exceptional service to, the Information Theory community.

### **Changho Suh: 2021 James L. Massey Research & Teaching Award for Young Scholars**

The James L. Massey Research & Teaching Award for Young Scholars recognizes outstanding achievement in research and teaching by young scholars in the Information Theory community.

### **Anuran Makur: 2021 Thomas M. Cover Dissertation Award**

The IEEE Information Theory Society Thomas M. Cover Dissertation Award is awarded annually to the author of an outstanding doctoral dissertation contributing to the mathematical foundations of any of the information sciences within the purview of the Society.

- Anuran Makur, "Information Contraction and Decomposition," *Ph.D. Thesis, Massachusetts Institute of Technology*

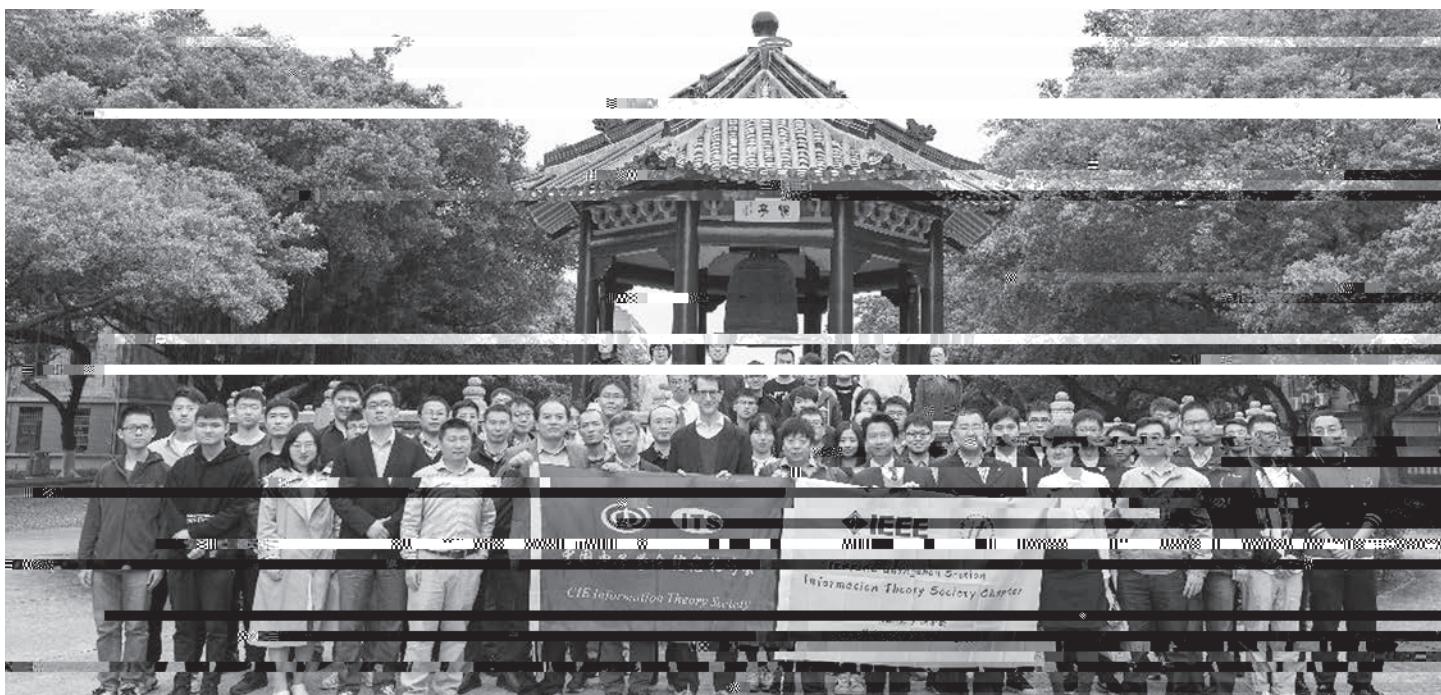
## IEEE Information Theory Society Guangzhou Chapter

On June 11, IEEE Information Theory Society announced that the Guangzhou Chapter is the recipient of the 2021 Chapter-of-the-Year Award. Guangzhou Chapter was founded in November 2019, transplanting the success of the 2018 IEEE Information Theory Workshop (ITW) that took place at Sun Yat-sen University (SYSU). The Chapter was established with a mission of *Promote Exchanges and Serve the Community*, hoping to proliferate information theory research and knowledge transfer in the Guangdong-Hong Kong-Macau Greater Bay Area, and South China at large. The Greater Bay Area is the national information technology innovation hub, with industrial conglomerates such as Huawei, Tencent and ZTE. Guangdong is also home to several key national higher education institutes, such as Sun Yat-sen University, South China University of Technology, Harbin Institute of Technology (Shenzhen), the Chinese University of Hong Kong (Shenzhen), the Tsinghua Shenzhen International Graduate School, the Tsinghua-Berkeley Shenzhen Institute and many others. It is envisioned that the Chapter will play an important role in higher education and technology innovation. Since its founding, besides promoting the IEEE membership, the Chapter has organized seasonal research workshops and established its Newsletters. The Chapter has been delighted by this recognition from the Society, but also more encouraged to continue its endeavor.

The 2018 ITW took place during November 25–29 in the historic Guangzhou south campus of SYSU. It was chaired by Pingzhi Fan and Li Chen. The workshop had welcomed 187 participants from 23 countries. Daily plenary talks were given by Erdal Arıkan (on *A Survey of Polarization Techniques for Multi-Terminal Source and Channel Coding*), David Tse (on *Operating Blockchains Near Physical Limits*), Raymond Yeung (on *Information Diagrams for Markov Random Fields*) and Peiyang Zhu (on *Polar Codes for 5G New Radio*) successively over its four-day technical program with a proceeding that contains 126 papers. The workshop also hosted two tutorials for the first time in ITWs. At the fringe of the ITW, the SYSU Coding and Information Theory Workshop took place on November 30 at the University's Guangzhou higher education megacentre campus, 20km east of the ITW venue. This one-day event has welcomed more than 70 participants with free registrations. It is substantiated by seven invited talks that were given by Richard Blahut (on *Channel Capacity from Waves to Particles*), Aditya Ramamoorthy (on *Reduced Subpacketization from Linear Block Codes*), Aylin Yener (on *Recent Advances in Cache-Aided Wireless Networks*), Fang-Wei Fu (on *Stopping Set Distributions of Linear Codes*), Meir Feder (on *Information and Uncertainty in Learning*), Pascal Vontobel (on *Graphical Models for Quantum Information Processing*) and Daniela Tuninetti (on *(Reliability, Latency, Rate) Tradeoffs for Downlink Wireless Systems*). During the lunch break, participants also visited the Tianhe-II supercomputer. This workshop provided an extra opportunity for the SYSU graduate students to interact with the ITW participants.

Coinciding with its founding, the Chapter organized its first event, the SYSU Workshop on Polar Coding Theory and Applications, at the University's Guangzhou south campus on November 29, 2019. The founding ceremony was marked by the speeches of Derong Liu, chair of IEEE Guangzhou Section, Stark Drapper, member of

the Society Board of Governors, and Baoming Bai, chair of the  
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Founding of Guangzhou Chapter, Nov. 2019.

*Singleton-Optimal Constructions of Locally Repairable Codes*), Hao Chen (on *Several Constructions of Subspace Codes*), Minquan Cheng (on *Coded Caching Schemes from Placement Delivery Array*), Min Ye (on *New Constructions of Cooperative MSR Codes: Reducing Node Size to  $\exp(O(n))$* ) and Congdian Li (on *Multi-Source Multicast Network Coding Rate Region*). Due to the travel restriction between Hong Kong and the mainland, Raymond gave his talk online, while others gave onsite talks. Our participants were excited by seeing each other again.

On December 2–3, the Chapter hosted another research workshop, the SYSU International Workshop on Mathematics and Coding. Information coding was founded on mathematics, which can be demonstrated by the development of classic codes, modern codes and the more recent network codes. This workshop aimed to revisit the mathematics that we have used for designing and practicing codes, so that we can better look forward. It was a hybrid event with more than 50 oversea online participants and more than 80 domestic onsite participants. The two-day program consisted of 15 invited talks spanning 4 sessions, which were chaired by Li Chen, Pingzhi Fan, Baoming Bai and Bazhong Shen, respectively. The invited talks were given by Alexander Barg (on *Stolarsky's Invariance Principle for the Hamming Space and Energy Maximization*), Jun Chen (on *The Duality Between Slepian-Wolf Coding and Channel Coding*), Li Chen (on *The Gröbner Bases in Decoding of Reed-Solomon Codes*), Paul Siegel (on *Coding for Efficient DNA Synthesis*), Erdal Arıkan (on *Polarization Adjusted Convolutional (PAC) Codes*), Martin Bossert (on *Information Set Decoding of BCH Codes over Binary Symmetric Channel*), Bob Li (on *Commutative Algebra in Network Coding*), Frank Kschischang (on *Zipper Codes*), Dmitry Trukhachev (on *Braided Block Codes, Structural Relation to Zipper Codes and Fiber-Optical Communications Aspects*), Hamid Ebrahimzad (on *Concatenated Polar-Zipper Codes in Optical Communication*), Kai Niu (on *Polar Spectrum: A Bridge between Polar Codes and Algebraic Codes*), Peter Trifonov (on *Trellises, BCH Codes, Finite Fields and Successive*



SYSU Workshop on Polar Coding Theory and Applications, Nov. 2019.



SYSU Workshop on Network Information Theory and Coding, Sept. 2020.

*Cancellation Decoding*), Pingyi Fan (on *MIN-GAN: Interpretable Generative Adversarial Networks with Exponential Function*), Fang-Wei Fu (on *Optimal Cyclic  $(r, \delta)$  Locally Repairable Codes with Unbounded Length*) and Raymond Leung (on *Coding: Not Only Mathematicson*)

- Ayfer Özgür (2020 Goldsmith Lecturer, Communications-Efficient and Privacy-Preserving Distributed Learning)

Besides the full lectures, there were also two interesting short lectures presented by:

- Reinhard Heckel (Deep Learning for Inverse Problems)
- Laurent Schmalen (Spatially Coupled LDPC Codes - Theory and Applications)

All lectures were presented in the form of high-quality pre-recorded videos that were distributed over a Video Showcase on the IT-Soc Vimeo account. The school participants had the opportunity to discuss with the lecturers in moderated live Q&A sessions on Zoom, questions could be asked either directly in the Zoom calls or pre-submitted to a dedicated email reflector for each lecturer. Both the lecture videos and the recorded Q&A sessions are (and will remain) available to ITSoc members via the video section on the recently updated itsoc.org.

The 159 registered participants had the opportunity to present their work in virtual poster sessions. Two identical poster sessions were held at different times of the day in order to accommodate participants from a variety of time zones. Poster presenters were

encouraged to be present in both of these sessions. We chose the avatar-based gather.town service in order to mimic an actual poster session as good as possible. That is, posters could be set up on virtual poster stands, presenters could “stand” right next to their posters with their avatars, and participants could “walk around”, read posters, and talk to presenters in proximity-based video chats. The gather.town format led to a couple of highly interactive situations and people got engaged in discussions in a way that would have been impossible in regular video calls. In order to guide participants through the poster sessions, each poster was announced

The school was concluded with a tutorial on Speeding up Bitcoin presented by the Society's 2020 Padovani Lecturer, Prof. David



## In Memoriam: Michele Elia 1945–2021

Michele Elia passed away unexpectedly on April 7, 2021 at his home in Castiglione Torinese, in the Italian region Piedmont. He was a professor in the Department of Electronics and Telecommunications at the *Politecnico di Torino* for over 30 years, the last 3 as professor emeritus.

Michele was born in Berzano di San Pietro (AT), Italy, on January 2, 1945. He obtained the Dr. Engineering degree in Electronic Engineering from the *Politecnico di Torino* in 1970. Throughout his whole professional career, he contributed significantly in the areas of coding theory and cryptography. He was always fascinated with number theory and he studied historic papers from number theorists of the 18th and 19th century with great interest. His superb knowledge of mathematics influenced many of his papers.

In the 1970's he did joint work with Ezio Biglieri, in which he designed group codes for the Gaussian channel which were significant in the area of wireless communication. In particular, he obtained existence conditions for any group code in  $n$ -dimensional spaces, and he obtained constructive results for optimal cyclic group codes. In the early 1980s, he presented a lower bound on the size of linear codes, which improved the Varshamov bound in certain cases.

A few years later, he developed a clever decoding algorithm for cyclic codes: His paper on the decoding of the  $(23, 12, 7)$  Golay code is a classic in this field as it provides an efficient way to decode many cyclic codes beyond the BCH bound.

In collaboration with Interlando and Palazzo in the 1990s, he generalized algebraic decoding algorithms of cyclic codes to cases where the codes were defined over integer residue rings.

In the 1990s, Michele also became a well-known researcher in the area of cryptography. In this area he published papers on steganography and several papers on (nonlinear) sequences. He has also been advising companies involved in the design of cryptographic machines.



His fascination with number theory resulted in about a dozen of papers with different co-authors on different topics of number theory. Of note, one of them contains observations about two equations introduced by Ramanujan and the existence of their solutions. Just one week before his untimely death he published on arXiv a paper entitled *Continued Fractions, Quadratic Fields, and Factoring: Some Computational Aspects* where he describes a new iterative algorithm which is capable of factoring square free integers in polynomial time once the class number and the regulator can be computed. The paper is fascinating as it might be feasible to compute the class number and the regulator in polynomial time.

Michele has been an inspiration for many young researchers in the information theory area. When e-learning was a completely new subject he was advising the Italian government on how one possibly could progress in this area. At the Politecnico of Turin he contributed significantly to make the telecommunication and information theory group a very strong group. In recent years Michele has been the President of a new Italian initiative in Cryptography called "De Componendis Cifris". We all will miss his presence, his kind personality and his advice.

**Location:** Remote

**Date:** June 6th, 2021

**Time:** The meeting convened at 9:30 am EDT; the meeting adjourned at 4:10 pm EDT

**Meeting Chair:** Wei Yu

**Minutes taken by:** Lara Dolecek

**Meeting Attendees:** Erik Agrell, Matthieu Bloch, Amitalok Budkuley (#), Robert Calderbank, Joseph Boutros (#), Themistoklis Charalambous (#), Marco Dalai (#), Michael Deering (#), Natasha Devroye, Suhas Diggavi, Alex Dimakis, Lara Dolecek, Stark Draper, Meir Feder, Christina Fragouli, Massimo Franceschetti, Andrea Goldsmith, Camilla Hollanti, Jerry Huang (#), Sid Jaggi, Tara Javidi, Vijay Kumar, Brian Kurkoski, Matt LaFleur (#), Olgica Milenkovic, Prakash Narayan, Henry Pfister, Joachim Rosenthal, Stefano Rini (#), Parastoo Sadeghi, Anand Sarwate, Emina Soljanin, Vincent Tan, Olav Tirkkonen (#), Daniela Tuninetti, Lalitha Vadlamani (#), Lele Wang (#), Edmund Yeh, Aylin Yener, Wei Yu.

Non-voting members are denoted by (#).

## **Business conducted between meetings.**

- 1) In April 2021, the following motion was issued:

**Motion:** To allow a search for the Editor-in-Chief of the IEEE Transactions on Information Theory for an initial 2-year term starting July 1, 2021, and to allow the Transactions to transition into an area editor model, with the area editors appointed by for t2 (d)10.7vhe o nge

Next BoG meeting will be held in October. A straw poll: How likely will you travel to an in-person workshop on “Information Theory and X” as part of October BoG meeting, was issued. It was noted that international restrictions may still be in place in October.

The result of the straw poll was mixed: there were 15 votes for unlikely/very unlikely; 4 votes for neutral; 9 votes for likely/very .

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speakers being outside of the Information Theory area. It was noted that the speakers are of international stature. A BoG member asked that the school presentations be detailed enough in the

made to restrict the in-person component in order to restrict travel for climate reasons.

Two straw polls were issued:

- 1) Given the conference survey results, the BoG requests future ISIT organizers to institute a hybrid format for the next 2–3 ISITs. The BoG recognizes the considerable uncertainty in in-person attendance numbers for hybrid ISITs and is willing to provide backstop to ensure the financial viability of the conference.
- 2) Given the conference survey results, the BoG requests future ISIT organizers to keep in mind, the following guidelines in organizing a trial hybrid ISIT over the next 2–3 years:
  - a) A hybrid ISIT should be structured so as to encourage in-person attendance;
  - b) A hybrid ISIT should not increase the cost of in-person attendance as compared to a traditional ISIT;
  - c) A hybrid ISIT should prioritize in-person experience while providing as good a virtual experience as possible.

For the both straw polls, the majority answered in the affirmative.

After a short break, the meeting continued.

### IEEE Foundation Presentation— Michael Deering

Next presentation was given by Michael Deering from the IEEE Foundation who manages donation accounts. He went over the *Realize the Full Potential of IEEE* campaign, stated the mission of the foundation, described the societal impact of the campaign, described how the foundation engages a wider audience in appreciating the value and importance of engineering and technology. He stated that 2.9% of \$32.1M raised in the campaign will be devoted to the IT Society. He talked about how foundation supports the Padovani Lecturer, Goldsmith Lecturer and Shannon Centennial programs.

### Treasurer Report—Edmund Yeh

Edmund started his presentation with the overview of the IEEE accounting, specifying that the surplus of general funds gets split evenly between the reserves and special projects (50% spending each) for the following year and that additionally 3% of reserves can be used for the special projects. He next went over the 2020 general funds and stated that the final end-of-the-year operational surplus was \$774.5K. This end value was due to several contributing factors, most notably an increase in revenue for the IT Transactions and JSAIT and the decrease in conference and meeting expenses. For the 2021 general funds, year-to-date surplus is \$170.5K. Next, Edmund went over the special projects for 2020 and for 2021.

The following motions were issued.

**Motion:** To approve 50% Spending of the General Funds for the following projects, in the total amount of \$120K:

- Art of Information Theory: \$40K

- Graphic art with resource center
- Distinguished lecture editing
- Information Theory and X workshop: \$80K.

**Motion:** To approve 3% Spending of the reserves, in the total amount of \$150K:

- Webserver upgrade: \$30K
- Future of the Information Theory Society (FITS): \$50K
- Magazine marketing: \$20K
- Information Theory and X workshop: \$50K.

The two motions passed.

### IEEE BITS Magazine—Rob Calderbank and Christina Fragouli

Next presentation was given by Rob as the EiC and Christina as the Chair of Steering Committee for the IEEE BITS Magazine. Rob went over the Editorial Board, including Editors and Column Editors, timeline for the upcoming issues, the list of invited papers to date, and the division of content between the magazine and the newsletter. Rob thanked Christina for the effective organization. Website for the magazine was shown and the IEEE administrative assistant was introduced. Rob thanked Anand Sarwate and Brian Kurkoski for their work on the website. Manuscript Central submission portal opened on June 1st 2021. Rob encouraged submission of new articles. Christina added that the first few years are important to set the right tone moving forward and echoed that strong contributions are important.

### Paper Awards Committee— Christina Fragouli

Next presentation was given by Christina on behalf of the Paper Awards Committee.

Votes were issued to accept the report of the Paper Awards Committee and for the IT Society Paper Award. Only members without conflicts were permitted to vote.

The Paper Award Committee's report was accepted. The BoG voted to accept the Paper Awards Committee's recommendation of the ITSoc Paper Award recipient.

After the executive session, the next presenter was Tara Javidi.

### Massey Award Committee—Tara Javidi

Tara went over this year's selection process for the Massey Award. She stated that six excellent nominations were received by the committee. The committee selected Prof. Changho Suh from KAIST as the recipient of the award. She stated that three of the nominations can carry over to the next year and suggested that it would be good to involve department chairs and advertise the award broadly.

## Cover Dissertation Award Committee— Roy Yates

Roy went over the nominations the committee had received, and stated that the committee had selected Dr. Anuran Makur who had received a PhD degree from MIT as the recipient of the award.

## JSAIT Update—Jeff Andrews

Jeff went over the executive summary and stated that JSAIT is overall doing well. The number and quality of submissions is healthy with the acceptance rate of around 2/3. First five issues are already published. Jeff went over the submission data for the issues. Next he went over the timeline for the next three upcoming issues. Jeff presented the budget and stated that JSAIT had a profit of over \$76K to date. He next went over the editorial board, including the EiC, senior editors, and the steering committee. The call for the new EiC will be issued by July 1st, 2021, and the 3-year term of the new EiC will start on January 1st, 2022. Jeff also stated that senior editors should be appointed in staggered order. He also stated that a goal for the journal is to increase the number of unsolicited proposals.

## Proposal for Tutorial/Overview Paper Award— Suhas Diggavi

The next presenter was Suhas. He first explained the rationale for introducing a tutorial award. He then asked that this award be named after the late Joy Thomas. Suhas went over Joy's biography and accomplishments, and recalled how he himself had heard of Joy when he was a middle schooler in India. He went over the details of the Joy Thomas Foundation.

The following motion was issued.

**Motion:** To approve the institution of a J. Thomas Information Theory Tutorial Award that recognizes exceptional tutorial publications in the field of information theory.

The motion passed.

Next, the following motion was issued.

**Motion:** To extend the meeting by 45 minutes.

The motion passed.

## External Nominations Committee— Muriel Médard

Muriel went over the goals for the committee for this year, the committee members, and the summary of their recent activities.

## Diversity and Inclusion Committee— Stark Draper

Stark gave the presentation as the Chair of the Diversity and Inclusion Committee. He thanked other committee members for their service. Updates since the last BoG meeting included ITSoc Scholarships for undergraduates from groups currently underrepresented in ITSoc for which the nominations are due June 7th; events at ISIT 2021; and the preparation plans for the D&I climate survey, which will be sent out to the community in the near future.

## Membership Committee— Matthieu Bloch

President Yu presented on behalf of Matthieu. He went over the committee members, chapter and school activities. He then went over the structure of the Meet the Shannon Lecturer event. Prof. Alon Orlitsky is the winner of the 2021 Shannon Award. This event will be a recorded interview conducted by Olgica Milenkovic and Jayadev Acharya. Next, Wei went over the details of the mentoring event that will take place at ISIT 2021. The purpose of the event is to connect junior researchers with senior members of the community, who can share their career advice and experiences. Last, Wei described the Four Minutes, Two Techniques Contest. This online challenge is for registered ISIT student participants who in teams of two explain each other one concept each. Winning videos will be posted on the ITSoc webpage and the winning team will receive a monetary award.

It was stated that WITHITS report will be presented another time.

President Yu relayed a message from Sennur Ulukus, as the Chair of the Fellows Committee. Sennur's message is that the committee is short staffed and needs more support.

The meeting adjourned at 4:10 pm EST.







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# Call for Papers: Due August 1, 2021

For more information, please contact the organizers at [allerton@cs.illinois.edu](mailto:allerton@cs.illinois.edu)

**AUGUST 1 — Submission Deadline**

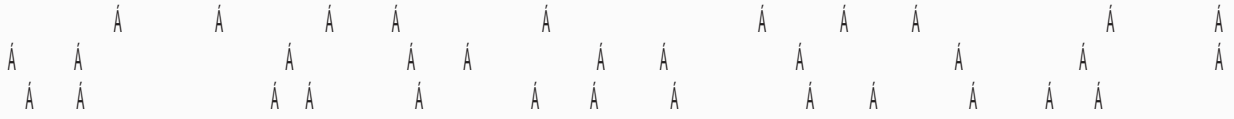
**AFTER AUGUST 9 — Registration**

**SEPTEMBER 29 - OCTOBER 1 — Conference Dates**

**September 28 — Opening Tutorial Lectures**

**September 29 - October 1 — Conference** at the University of Illinois at Urbana-Champaign

**IEEE Journal on Selected Areas in Information Theory**  
**Special Issue on Information Theoretic Foundations of Future Communication Systems**



## Symposium Committee

General Co-Chairs

Brian M. Kurkoski JAIST

Tadashi Wadayama Nagoya Inst. of Tech.

Shun Watanabe Tokyo Univ. of A&T

Finance

Shigeaki Kuzuoka

# REDUNDANCY 2021



XVII International Symposium "Problems of Redundancy in Information and Control Systems" is the

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# 2022 International Zürich Seminar on Information and Communication

March 2 – 4, 2022



## Call for Papers

# 56th Annual Conference on Information Sciences and Systems

March 9, 10, & 11, 2022

**Princeton University-Dept. of Electrical and Computer Engineering**  
*and Technical Co-sponsorship with the*  
**IEEE Information Theory Society**

Authors are invited to submit previously unpublished papers describing theoretical advances, applications, and ideas in the fields of information sciences and systems including:

·Information Theory  
·Communications

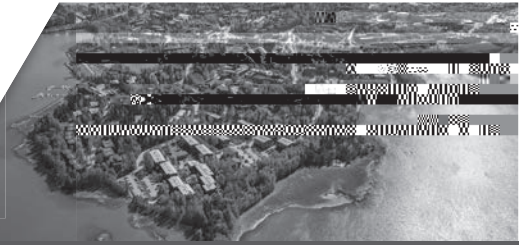
·Coding Theory  
·Signal Processing

·Image Processing  
·Machine Learning

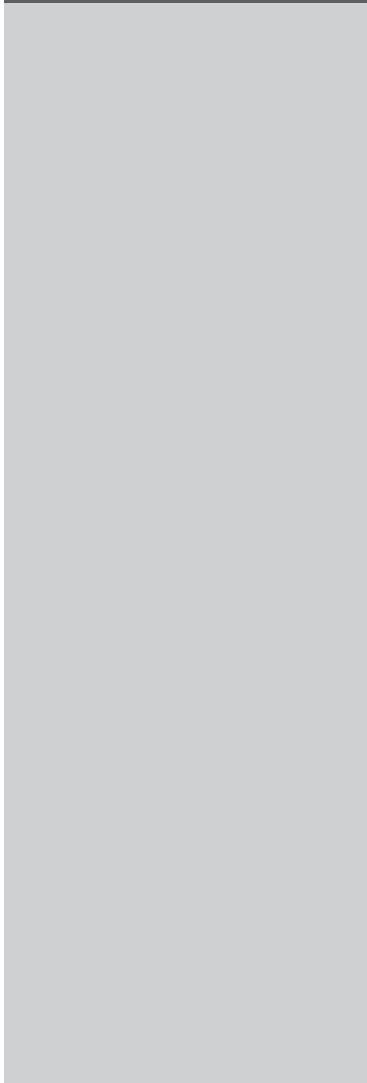


2022 IEEE  
INTERNATIONAL SYMPOSIUM  
ON INFORMATION THEORY

JUNE 26-JULY 1 AT AALTO UNIVER  
SITY, ESPOO, FINLAND



# CALL FOR PAPERS



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## Conference Calendar

DATE	CONFERENCE	LOCATION	WEB PAGE	DUE DATE
September 27–30, 2021	The 22nd IEEE International Workshop on Signal Processing Advances in Wireless Communications (SPAWC)	Lucca, Italy (virtual)	<a href="https://www.spawc2021.com/">https://www.spawc2021.com/</a>	Passed
September 29–October 1, 2021	The 58th Annual Allerton Conference on Communication, Control, and Computing	Allerton, University of Illinois at Urbana- Champaign, USA (in person & by only invited sessions)	<a href="https://allerton.csl.illinois.edu/">https://allerton.csl.illinois.edu/</a>	July 8, 2021
October 4–6, 2021	IEEE Conference on Communications and Network Security	Virtual Conference	<a href="https://cns2021.ieee-cns.org/">https://cns2021.ieee-cns.org/</a>	June 17, 2021
October 17–21, 2021	IEEE Information Theory Workshop (ITW)	Kanazawa, Japan (virtual)	<a href="http://itw2021.org/">http://itw2021.org/</a>	Passed
October 18–21, 2021	The 19th International Symposium on Modeling and Optimization in Mobile, Ad hoc, and Wireless Networks (WiOpt)	Philadelphia, PA, USA (virtual)	<a href="http://www.wi-opt.org/cfp.html">http://www.wi-opt.org/cfp.html</a>	Passed
October 25–29, 2021	XVII International Symposium Problems of Redundancy in Information and Control Systems	Moscow, Russia (hybrid)	<a href="https://miem.hse.ru/ru/redundancy2021/call-for-papers">https://miem.hse.ru/ru/redundancy2021/call-for-papers</a>	Passed
December 6–14, 2021	The 35th Conference on Neural Information Processing Systems (NeurIPS)	Virtual Conference	<a href="https://nips.cc/">https://nips.cc/</a>	Passed
December 7–11, 2021	IEEE Global Communications Conference (GLOBECOM)	Madrid, Spain (hybrid)	<a href="https://globecom2021.ieee-globecom.org/">https://globecom2021.ieee-globecom.org/</a>	Passed
February 7–10, 2022	62nd Annual IEEE Symposium on Foundations of Computer Science (FOCS)	Boulder, Colorado, USA (in person)	<a href="https://focs2021.cs.colorado.edu/">https://focs2021.cs.colorado.edu/</a>	June 3, 2021
February 22–March 1, 2022	36th AAAI Conference on Artificial Intelligence (AAAI)	Vancouver, BC, Canada (in person)	<a href="https://aaai.org/Conferences/AAAI-22/">https://aaai.org/Conferences/AAAI-22/</a>	September 8, 2021
March 2–4, 2022	International Zurich Seminar on Information and Communication (IZS)	Zurich, Switzerland (in person)	<a href="https://www.izs.ethz.ch/">https://www.izs.ethz.ch/</a>	September 26, 2021
March 9–11, 2022	56th Annual Conference on Information Sciences and Systems (CISS)	Princeton University, NJ, USA (virtual)	<a href="https://ee-ciss.princeton.edu/">https://ee-ciss.princeton.edu/</a>	December 1, 2021
March 30–April 1, 2022	The 25th International Conference on Artificial Intelligence and Statistics (AISTATS)	Valencia, Spain (in person)	<a href="https://aistats.org/aistats2022/">https://aistats.org/aistats2022/</a>	October 15, 2021
April 10–13, 2022	IEEE Wireless Communications and Networking Conference (WCNC)	Austin, TX, USA (in person)	<a href="http://wcnc2022.ieee-wcnc.org/">http://wcnc2022.ieee-wcnc.org/</a>	September 15, 2021
April 25–29, 2022	The 10th International Conference on Learning Representations (ICLR)	Virtual Conference	<a href="https://iclr.cc/">https://iclr.cc/</a>	October 5, 2021
June 26–July 1, 2022	IEEE International Symposium on Information Theory (ISIT)	Aalto University, Espoo, Finland (in person)	<a href="https://www.isit2022.org">https://www.isit2022.org</a>	January 15, 2022
July 3–7, 2022	IEEE European School of Information Theory (ESIT)	Vienna, Austria (in person)	<a href="https://www.itsoc.org/conferences/schools/ESIT2022">https://www.itsoc.org/conferences/schools/ESIT2022</a>	—