

# Advanced Communications Center Annual Workshop & Feder Family Award Ceremony

Sunday, January 21<sup>st</sup>, 2018

Zeevi Auditorium, Beit Hatfutsot (Diaspora) Museum, Tel Aviv University

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|-----------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>08:45-09:00</b>                                                    | <b>Registration &amp; coffee</b>                                                                                                                                                                                  |
|                                                                       | Welcome and ACC overview                                                                                                                                                                                          |
| <b>09:00-09:20</b>                                                    | Yossi Rosenwaks • Dean, Faculty of Engineering, Tel Aviv University<br>Ofer Shayevitz • Head of the ACC                                                                                                           |
| <b>09:20-10:10</b>                                                    | Sergio Verdu • Princeton University<br><b>The Single-shot method in information theory</b>                                                                                                                        |
| <b>10:10-11:00</b>                                                    | Shay Zucker • Tel Aviv University<br><b>The search for extrasolar planets: Statistical signal processing aspects</b>                                                                                              |
| <b>11:00-11:30</b>                                                    | <b>Coffee Break</b>                                                                                                                                                                                               |
| <b>11:30-12:20</b>                                                    | Young-Han Kim • University of California San Diego<br><b>Coded modulation: An information-theoretic perspective</b>                                                                                               |
| <b>The Feder Family Award for Best Student Work in Communications</b> |                                                                                                                                                                                                                   |
| <b>12:20-12:40</b>                                                    | <b>Ceremony</b><br>Joseph Klafter • President, Tel Aviv University<br>Yossi Rosenwaks • Dean, Faculty of Engineering<br>Mark Shttaif • Head, School of Electrical Engineering<br>Meir Feder • Tel Aviv University |
| <b>12:40-13:00</b>                                                    | <b>1<sup>st</sup> place winner: Eli Haim • Tel Aviv University</b><br>Error probability bounds in information theory: Role of structure, performance criteria and decision rules                                  |
| <b>13:00-14:00</b>                                                    | <b>Lunch</b>                                                                                                                                                                                                      |
| <b>14:00-14:50</b>                                                    | Shlomo Shamai (Shitz) • Technion<br><b>An information theoretic view of cloud radio access networks</b>                                                                                                           |
| <b>14:50-15:10</b>                                                    | <b>2<sup>nd</sup> place winner: Ori Golani • Tel Aviv University</b><br>Nonlinear interference noise in optical fibers – properties, measurement, and applications.                                               |
| <b>15:10-15:50</b>                                                    | Naftali Sommer • Apple<br><b>Data storage in flash memories using a non-integer number of bits per cell</b>                                                                                                       |
| <b>15:50-16:20</b>                                                    | <b>Coffee Break</b>                                                                                                                                                                                               |
| <b>16:20-16:40</b>                                                    | <b>3<sup>rd</sup> place winner: Ran Ben Basat • Technion</b><br>Real time network measurements                                                                                                                    |
| <b>16:40-17:30</b>                                                    | Naftali Tishby • Hebrew University<br><b>The Information Bottleneck Theory of deep learning</b>                                                                                                                   |
| <b>17:30 -</b>                                                        | <b>Cocktail</b>                                                                                                                                                                                                   |

Symposium is free of charge, but advance registration is required at [acc@eng.tau.ac.il](mailto:acc@eng.tau.ac.il)