

# 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

<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 Ofer Shayevitz • Head of the ACC
<b>09:20-10:10</b>	Sergio Verdu • Princeton University <i>The Single-shot method in information theory</i>
<b>10:10-11:00</b>	Shay Zucker • Tel Aviv University <i>The search for extrasolar planets: Statistical signal processing aspects</i>
<b>11:00-11:30</b>	<b>Coffee Break</b>
<b>11:30-12:20</b>	Young-Han Kim • University of California San Diego <i>Coded modulation: An information-theoretic perspective</i>
<b>The Feder Family Award for Best Student Work in Communications</b>	
<b>12:20-12:40</b>	<b>Ceremony</b> Joseph Klafter • President, Tel Aviv University Yossi Rosenwaks • Dean, Faculty of Engineering Mark Shtauf • Head, School of Electrical Engineering Meir Feder • Tel Aviv University
<b>12:40-13:00</b>	<b>1<sup>st</sup> place winner: Eli Haim • Tel Aviv University</b> 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 <i>An information theoretic view of cloud radio access networks</i>
<b>14:50-15:10</b>	<b>2<sup>nd</sup> place winner: Ori Golani • Tel Aviv University</b> Nonlinear interference noise in optical fibers – properties, measurement, and applications.
<b>15:10-15:50</b>	Naftali Sommer • Apple <i>Data storage in flash memories using a non-integer number of bits per cell</i>
<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> Real time network measurements
<b>16:40-17:30</b>	Naftali Tishby • Hebrew University <i>The Information Bottleneck Theory of deep learning</i>
<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)