

The Symposium will be complemented by a series of satellite seminars throughout October featuring tutorial sessions by distinguished experts.

**Seminar on music, sound, speech and artificial intelligence**  
(October 20, 2018)

**Seminar on psychology and brain sciences related to hearing and multisensory processing**  
(October 20, 2018 – October 22, 2018)

**Seminar on brain, hearing and speech sciences for universal speech communication**  
(October 24, 2018 – October 26, 2018)

**Seminar on the spatial aspects of hearing and their applications**  
(October 29, 2018 – October 30, 2018)

### Organizing institutions

Universal Acoustical Communication International Symposium Organizing Committee  
Tohoku Forum for Creativity, Tohoku University  
Research Institute of Electrical Communication, Tohoku University

### Program co-sponsors

Japan Advanced Institute of Science and Technology  
Graduate School/Faculty of Arts and Letters, Tohoku University  
Graduate School of Information Sciences, Tohoku University  
School of Engineering, Tohoku University  
Graduate School of Biomedical Engineering, Tohoku University  
School of Medicine, Tohoku University  
Brain Science Center, Tohoku University

### Supporting organizations

Acoustical Society of Japan  
The Virtual Reality Society of Japan  
Japanese Multisensory Research Forum  
National Institute of Information and Communications Technology  
The Kajima Foundation  
Kayamori Foundation of Informational Science Advancement  
Support Center for Advanced Telecommunications Technology Research, Foundation  
Intelligent Cosmos Scientific Foundation

### Homepages

[Program page]

<http://www.tfc.tohoku.ac.jp/program/2153.html>



[International Symposium]

<http://www.tfc.tohoku.ac.jp/event/4212.html>



# International Symposium on Universal Acoustical Communication 2018

Discussing the future of Universal Acoustical Communication by bringing together world-class researchers and young scientists.

Featuring keynote lectures, panel discussion and contributed posters on a wide range of topics, including:  
Brain, hearing and speech sciences  
Multisensory perception and affective aspects of communications  
Applications of AI to communications  
Spatial aspects of hearing

**Date:** October 22 - 24, 2018

**Venue:** Research Institute of Electrical Communication Tohoku University

**Contact:** [uac2018@riec.tohoku.ac.jp](mailto:uac2018@riec.tohoku.ac.jp) (UAC2018 Organizing Committee)

### ORGANIZERS

SUZUKI, Yôiti (Tohoku University)

MOORE, Brian C.J. (University of Cambridge)

AKAGI, Masato (Japan Advanced Institute of Science and Technology)

GYOBA, Jiro (Tohoku University)

ITO, Akinori (Tohoku University)

KAWASE, Tetsuaki (Tohoku University)



Program

Oct. 22 (Mon)

Oct. 23 (Tue)

Oct. 24 (Wed)

			09:00-10:30	AI keynote lectures	09:00-10:30	Speech keynote lectures
				<b>JUANG, Fred B.H.</b> (Georgia Institute of Technology)		<b>KOLLMEIER, Birger</b> (The Carl von Ossietzky University of Oldenburg)
				<b>SAKTI, Sakriani</b> (Nara Institute of Science and Technology)		<b>IRINO, Toshio</b> (Wakayama University)
			10:30-12:00	Poster session	10:30-12:00	Hearing keynote lectures
						<b>OXENHAM, Andrew</b> (University of Minnesota)
						<b>UNOKI, Masashi</b> (Japan Advanced Institute of Science and Technology)
			12:00-13:30	Lunch	12:00-13:30	Lunch
	12:50-13:00	Opening remarks				
	13:00-15:15	Mind keynote lectures				
		<b>SPENCE, Charles</b> (University of Oxford)	13:30-15:00	3D keynote lectures	13:30-15:00	Brain keynote lectures
		<b>SAKAI, Nobuyuki</b> (Tohoku University)		<b>JIN, Craig</b> (University of Sydney)		<b>CHAIT, Maria</b> (University College London)
		<b>FUJISAKI, Waka</b> (Japan Women's University)		<b>OMOTO, Akira</b> (Kyushu University)		<b>SEKIYAMA, Kaoru</b> (Kyoto University)
	15:15-15:30	Break	15:00-15:15	Break	15:00-15:15	Break
	15:30-17:00	Brain keynote lectures	15:15-16:15	Special lecture	15:15-16:45	Hearing keynote lectures
		<b>KRAL, Andrej</b> (Hannover School of Medicine)		<b>MOORE, Brian C.J.</b> (University of Cambridge)		<b>GOCKEL, Hedwig</b> (University of Cambridge)
		<b>TAKAHASHI, Hirokazu</b> (The University of Tokyo)	16:15-16:30	Break		<b>DAU, Torsten</b> (Technical University of Denmark)
	17:00-17:15	Break	16:30-18:00	Panel discussion	16:45-17:00	Closing remarks
	17:15-18:45	Poster session				
			19:00-	Banquet		