## Program at a Glance

Wednesday, February 22nd, 2012

9:00-9:30			
	Openii	ng Session (Conference Room A : Take(竹))	
		Opening Remarks	Nei Kato
		Opening Remarks	Akihisa Inoue
			(President, Tohoku University)
		GCOE Activities for Five Years	Fumiyuki Adachi
		v-QI School Outcomes	Masayuki Kawamata
9:30-10:20	1A-1	Strategic Research and Innovation in Optical Communications:	Tingye Li
		An Excited-State Lifetime of Forty Years at AT&T Bell Lads (Keynote)	(Emeritus AT&T)
10:20-10:40		Break	,
10:40-11:20	1A-2	Vehicular Communication Networks: Opportunities and Challenges (Invited)	Weihua Zhuang
10.10 11.20	.,	vollocatal communication rectioned opportunities and challenges (invited)	(University of Waterloo)
11:20-12:00	1A-3	Sensitive Superconducting Detectors at Terahertz and	Jian Chen
11.20-12.00	17-5	Optical Wavebands (Invited)	(Nanjing University)
12:00-13:20		Lunch	(Natifility Offiversity)
	24.4	Challenge to Ultrafast and High-Spectral-Density Optical Communications Systems	Manataka Nakazawa
13:20-13:50	2A-1		Masataka Nakazawa
13:50-14:20	2A-2	Reflectarray Development for Elimination Blindness Propagation Channel	Kunio Sawaya
14:20-14:50	2A-3	Recent Advances in Gigabit Wireless Technology	Fumiyuki Adachi
14:50-15:20	2A-4	A Robust Optimization of Designing P2P System with Attack and Fault	Nei Kato
13:20-13:50	2B-1	Recent Progress in Spintronics Technology for Nonvolatile VLSIs	Hideo Ohno
13:50-14:20	2B-2	Tailor-Made Nano Structured Material for Highly Qualified Spin Related Devices	Migaku Takahashi
14:20-14:50	2B-3	Perspective of 10 Tbitt/inch <sup>2</sup> Information Storage	Hiroaki Muraoka
14:50-15:20	2B-4	Scanning Nonlinear Dielectric Microscopy	Yasuo Cho
15:20-15:40		Break	
15:40-16:20	3A-1	Constrained Nonnegative Matrix Factorization for Recognition Tasks from Facial	Chiou-Ting Hsu
		Images (Invited)	(National Tsing Hua University)
16:20-16:40		Break	
16:40-17:10	3A-2	New VLSI Platform for Real-World Intelligent Integrated Systems based on Algorithm	Michitaka Kameyama
10.10 17.10	0/12	Selection	Michiala Kameyama
17:10-17:40	3A-3	Wire-Fault-Tolerant Delay-Insensitive Asynchronous Communication Link with	Takahiro Hanyu
17.10-17.40	JA-3	Current-Level Monitoring	rakariii o riariyu
17:40 10:10	21/4	Higher-Order Model Checking and its Applications	Naski Kahayashi
17:40-18:10	3A-4		Naoki Kobayashi
16:40-17:10	3B-2	Nanocarbon-Nanoelectronics Oriented Nanoscopic Plasma Control	Rikizo Hatakeyama
17:10-17:40	3B-3	Self-ordered Nano-tubular Structures: Formation and Applications	Michio Niwano
17:40-18:10	3B-4	Application of the Ultrasonic Micro-spectroscopy Technology to Next-Generation	Jun-ichi Kushibiki
		Functional Glasses	
18:10-19:40		Welcome Reception (Hermitage 3F)	All
		Thursday, February 23rd, 2012	
9:00-9:50	4A-1	Spin Based Quantum Computation with Quantum Dots:	Seigo Tarucha
		Qubit, Qubit Gate and Scale-up (Keynote)	(University of Tokyo)
9:50-10:30	4A-2	Nanostructured Semiconductor Layers Grown on Oxidized Si Surfaces (Invited)	Alexander A. Shklyaev
0.00 10.00	7/12	Trailostractured ociniconductor Edycro Grown on Galaized or Gundees (invited)	(The Institute of Semiconductor Physics)
10:30-10:50		Break	(The mediate of Commediate Thyeles)
	4 N 3	Multi Photon Quantum Ontice and Quantum Information	Kojichi Edamateu
10:50-11:20	4A-3	Multi-Photon Quantum Optics and Quantum Information	Keiichi Edamatsu
11:20-11:50	4A-3 4A-4	Atomically Controlled Processing for Future Si-based Devices	Keiichi Edamatsu Junichi Murota
11:20-11:50 11:50-13:10	4A-4	Atomically Controlled Processing for Future Si-based Devices  Lunch	Junichi Murota
11:20-11:50 11:50-13:10 13:10-15:00	4A-4 Short P	Atomically Controlled Processing for Future Si-based Devices  Lunch Presentation I & II (Conference Room A: Take(竹)) (14:00-14:10 Break)	Junichi Murota  All RAs
11:20-11:50 11:50-13:10 13:10-15:00 15:00-17:00	4A-4 Short P	Atomically Controlled Processing for Future Si-based Devices  Lunch Presentation I & II (Conference Room A: Take(竹)) (14:00-14:10 Break) Session and Exhibition (Conference Room B: Suzume (雀) & Sakura(桜))	All RAs All Members and RAs
11:20-11:50 11:50-13:10 13:10-15:00	4A-4 Short P	Atomically Controlled Processing for Future Si-based Devices  Lunch Presentation I & II (Conference Room A: Take(竹)) (14:00-14:10 Break)	Junichi Murota  All RAs
11:20-11:50 11:50-13:10 13:10-15:00 15:00-17:00	4A-4 Short P	Atomically Controlled Processing for Future Si-based Devices  Lunch Presentation I & II (Conference Room A: Take(竹)) (14:00-14:10 Break) Session and Exhibition (Conference Room B: Suzume (雀) & Sakura(桜))	All RAs All Members and RAs
11:20-11:50 11:50-13:10 13:10-15:00 15:00-17:00 17:00-19:00	Short P Poster	Atomically Controlled Processing for Future Si-based Devices  Lunch Presentation I & II (Conference Room A: Take(竹)) (14:00-14:10 Break) Session and Exhibition (Conference Room B: Suzume (雀) & Sakura(桜))  Banquet (Hermitage 3F)  Friday, February 24th, 2012	Junichi Murota  All RAs All Members and RAs All
11:20-11:50 11:50-13:10 13:10-15:00 15:00-17:00	4A-4 Short P	Atomically Controlled Processing for Future Si-based Devices  Lunch Presentation I & II (Conference Room A: Take(竹)) (14:00-14:10 Break) Session and Exhibition (Conference Room B: Suzume (雀) & Sakura(楼)) Banquet (Hermitage 3F)	Junichi Murota  All RAs All Members and RAs All  Gérard Assyag
11:20-11:50 11:50-13:10 13:10-15:00 15:00-17:00 17:00-19:00 9:00-9:50	Short P Poster	Atomically Controlled Processing for Future Si-based Devices  Lunch Presentation I & II (Conference Room A: Take(竹)) (14:00-14:10 Break) Session and Exhibition (Conference Room B: Suzume (雀) & Sakura(桜)) Banquet (Hermitage 3F)  Friday, February 24th, 2012  Symbolic Interaction in Sound and Music (Keynote)	Junichi Murota  All RAs All Members and RAs All  Gérard Assyag (IRCAM, CNRS, UPMC)
11:20-11:50 11:50-13:10 13:10-15:00 15:00-17:00 17:00-19:00	Short P Poster	Atomically Controlled Processing for Future Si-based Devices  Lunch Presentation I & II (Conference Room A: Take(竹)) (14:00-14:10 Break) Session and Exhibition (Conference Room B: Suzume (雀) & Sakura(桜))  Banquet (Hermitage 3F)  Friday, February 24th, 2012  Symbolic Interaction in Sound and Music (Keynote)  High-Accuracy Design and Implementation of All Pass-Based Hilbert	Junichi Murota  All RAs All Members and RAs All  Gérard Assyag (IRCAM, CNRS, UPMC) Georgi Stoyanov
11:20-11:50 11:50-13:10 13:10-15:00 15:00-17:00 17:00-19:00 9:00-9:50 9:50-10:30	Short P Poster	Atomically Controlled Processing for Future Si-based Devices  Lunch Presentation I & II (Conference Room A: Take(竹)) (14:00-14:10 Break) Session and Exhibition (Conference Room B: Suzume (雀) & Sakura(桜))  Banquet (Hermitage 3F)  Friday, February 24th, 2012  Symbolic Interaction in Sound and Music (Keynote)  High-Accuracy Design and Implementation of All Pass-Based Hilbert Transformers and Fractional Delay Filters (Invited)	Junichi Murota  All RAs All Members and RAs All  Gérard Assyag (IRCAM, CNRS, UPMC)
11:20-11:50 11:50-13:10 13:10-15:00 15:00-17:00 17:00-19:00 9:00-9:50 9:50-10:30 10:30-10:50	Short P Poster 5 5A-1 5A-2	Atomically Controlled Processing for Future Si-based Devices  Lunch Presentation I & II (Conference Room A: Take(竹)) (14:00-14:10 Break) Session and Exhibition (Conference Room B: Suzume (雀) & Sakura(桜))  Banquet (Hermitage 3F)  Friday, February 24th, 2012  Symbolic Interaction in Sound and Music (Keynote)  High-Accuracy Design and Implementation of All Pass-Based Hilbert Transformers and Fractional Delay Filters (Invited)  Break	Junichi Murota  All RAs All Members and RAs All  Gérard Assyag (IRCAM, CNRS, UPMC) Georgi Stoyanov (Technical University of Sofia)
11:20-11:50 11:50-13:10 13:10-15:00 15:00-17:00 17:00-19:00 9:00-9:50 9:50-10:30	Short P Poster	Atomically Controlled Processing for Future Si-based Devices  Lunch Presentation I & II (Conference Room A: Take(竹)) (14:00-14:10 Break) Session and Exhibition (Conference Room B: Suzume (雀) & Sakura(桜))  Banquet (Hermitage 3F)  Friday, February 24th, 2012  Symbolic Interaction in Sound and Music (Keynote)  High-Accuracy Design and Implementation of All Pass-Based Hilbert Transformers and Fractional Delay Filters (Invited)  Break  Toward Realizing High Sense-of-Presence Communications with 3D Spatial Sound	Junichi Murota  All RAs All Members and RAs All  Gérard Assyag (IRCAM, CNRS, UPMC) Georgi Stoyanov
11:20-11:50 11:50-13:10 13:10-15:00 15:00-17:00 17:00-19:00 9:00-9:50 9:50-10:30 10:30-10:50 10:50-11:20	Short P Poster 5 5A-1 5A-2	Atomically Controlled Processing for Future Si-based Devices  Lunch Presentation I & II (Conference Room A: Take(竹)) (14:00-14:10 Break) Session and Exhibition (Conference Room B: Suzume (雀) & Sakura(桜)) Banquet (Hermitage 3F)  Friday, February 24th, 2012  Symbolic Interaction in Sound and Music (Keynote)  High-Accuracy Design and Implementation of All Pass-Based Hilbert Transformers and Fractional Delay Filters (Invited)  Break  Toward Realizing High Sense-of-Presence Communications with 3D Spatial Sound Systems	Junichi Murota  All RAs All Members and RAs All  Gérard Assyag (IRCAM, CNRS, UPMC) Georgi Stoyanov (Technical University of Sofia)  Yôiti Suzuki
11:20-11:50 11:50-13:10 13:10-15:00 15:00-17:00 17:00-19:00 9:00-9:50 9:50-10:30 10:30-10:50 10:50-11:20 11:20-11:50	5A-1 5A-2 6A-1 6A-2	Atomically Controlled Processing for Future Si-based Devices  Lunch Presentation I & II (Conference Room A: Take(竹)) (14:00-14:10 Break) Session and Exhibition (Conference Room B: Suzume (雀) & Sakura(楼)) Banquet (Hermitage 3F)  Friday, February 24th, 2012  Symbolic Interaction in Sound and Music (Keynote)  High-Accuracy Design and Implementation of All Pass-Based Hilbert Transformers and Fractional Delay Filters (Invited)  Break  Toward Realizing High Sense-of-Presence Communications with 3D Spatial Sound Systems  Efficient Image Segmentation Algorithms with Flexible Shape Control	Junichi Murota  All RAs All Members and RAs All  Gérard Assyag (IRCAM, CNRS, UPMC) Georgi Stoyanov (Technical University of Sofia)  Yôiti Suzuki  Takeshi Tokuyama
11:20-11:50 11:50-13:10 13:10-15:00 15:00-17:00 17:00-19:00 9:00-9:50 9:50-10:30 10:30-10:50 10:50-11:20	Short P Poster 5 5A-1 5A-2	Atomically Controlled Processing for Future Si-based Devices  Lunch Presentation I & II (Conference Room A: Take(竹)) (14:00-14:10 Break) Session and Exhibition (Conference Room B: Suzume (雀) & Sakura(楼))  Banquet (Hermitage 3F)  Friday, February 24th, 2012  Symbolic Interaction in Sound and Music (Keynote)  High-Accuracy Design and Implementation of All Pass-Based Hilbert Transformers and Fractional Delay Filters (Invited)  Break  Toward Realizing High Sense-of-Presence Communications with 3D Spatial Sound Systems  Efficient Image Segmentation Algorithms with Flexible Shape Control Toward Machine Vision Technology Overcoming the Pixel Resolution Limit	Junichi Murota  All RAs All Members and RAs All  Gérard Assyag (IRCAM, CNRS, UPMC) Georgi Stoyanov (Technical University of Sofia)  Yôiti Suzuki
11:20-11:50 11:50-13:10 13:10-15:00 15:00-17:00 17:00-19:00 9:00-9:50 9:50-10:30 10:30-10:50 10:50-11:20 11:20-11:50 11:50-12:20	5A-1 5A-2 6A-1 6A-2	Atomically Controlled Processing for Future Si-based Devices  Lunch Presentation I & II (Conference Room A: Take(竹)) (14:00-14:10 Break) Session and Exhibition (Conference Room B: Suzume (雀) & Sakura(楼)) Banquet (Hermitage 3F)  Friday, February 24th, 2012  Symbolic Interaction in Sound and Music (Keynote)  High-Accuracy Design and Implementation of All Pass-Based Hilbert Transformers and Fractional Delay Filters (Invited)  Break  Toward Realizing High Sense-of-Presence Communications with 3D Spatial Sound Systems  Efficient Image Segmentation Algorithms with Flexible Shape Control Toward Machine Vision Technology Overcoming the Pixel Resolution Limit From 3D Vision to Medical Imaging	Junichi Murota  All RAs All Members and RAs All  Gérard Assyag (IRCAM, CNRS, UPMC) Georgi Stoyanov (Technical University of Sofia)  Yôiti Suzuki  Takeshi Tokuyama
11:20-11:50 11:50-13:10 13:10-15:00 15:00-17:00 17:00-19:00 9:00-9:50 9:50-10:30 10:30-10:50 10:50-11:20 11:20-11:50 11:50-12:20	5A-1 5A-2 6A-1 6A-2	Atomically Controlled Processing for Future Si-based Devices  Lunch Presentation I & II (Conference Room A: Take(竹)) (14:00-14:10 Break) Session and Exhibition (Conference Room B: Suzume (雀) & Sakura(楼))  Banquet (Hermitage 3F)  Friday, February 24th, 2012  Symbolic Interaction in Sound and Music (Keynote)  High-Accuracy Design and Implementation of All Pass-Based Hilbert Transformers and Fractional Delay Filters (Invited)  Break  Toward Realizing High Sense-of-Presence Communications with 3D Spatial Sound Systems  Efficient Image Segmentation Algorithms with Flexible Shape Control Toward Machine Vision Technology Overcoming the Pixel Resolution Limit	Junichi Murota  All RAs All Members and RAs All  Gérard Assyag (IRCAM, CNRS, UPMC) Georgi Stoyanov (Technical University of Sofia)  Yôiti Suzuki  Takeshi Tokuyama
11:20-11:50 11:50-13:10 13:10-15:00 15:00-17:00 17:00-19:00 9:00-9:50 9:50-10:30 10:30-10:50 10:50-11:20 11:20-11:50	5A-1 5A-2 6A-1 6A-2 6A-3	Atomically Controlled Processing for Future Si-based Devices  Lunch Presentation I & II (Conference Room A: Take(竹)) (14:00-14:10 Break) Session and Exhibition (Conference Room B: Suzume (雀) & Sakura(楼)) Banquet (Hermitage 3F)  Friday, February 24th, 2012  Symbolic Interaction in Sound and Music (Keynote)  High-Accuracy Design and Implementation of All Pass-Based Hilbert Transformers and Fractional Delay Filters (Invited)  Break  Toward Realizing High Sense-of-Presence Communications with 3D Spatial Sound Systems  Efficient Image Segmentation Algorithms with Flexible Shape Control Toward Machine Vision Technology Overcoming the Pixel Resolution Limit From 3D Vision to Medical Imaging	Junichi Murota  All RAs All Members and RAs All  Gérard Assyag (IRCAM, CNRS, UPMC) Georgi Stoyanov (Technical University of Sofia)  Yôiti Suzuki  Takeshi Tokuyama Takafumi Aoki
11:20-11:50 11:50-13:10 13:10-15:00 15:00-17:00 17:00-19:00 9:00-9:50 9:50-10:30 10:30-10:50 10:50-11:20 11:50-12:20 10:50-11:20	5A-1 5A-2 6A-1 6A-2 6A-3 6B-1	Atomically Controlled Processing for Future Si-based Devices  Lunch Presentation I & II (Conference Room A: Take(竹)) (14:00-14:10 Break) Session and Exhibition (Conference Room B: Suzume (雀) & Sakura(楼)) Banquet (Hermitage 3F)  Friday, February 24th, 2012  Symbolic Interaction in Sound and Music (Keynote)  High-Accuracy Design and Implementation of All Pass-Based Hilbert Transformers and Fractional Delay Filters (Invited)  Break  Toward Realizing High Sense-of-Presence Communications with 3D Spatial Sound Systems  Efficient Image Segmentation Algorithms with Flexible Shape Control Toward Machine Vision Technology Overcoming the Pixel Resolution Limit From 3D Vision to Medical Imaging Development of the Next Generation Highly Functional Display Systems	Junichi Murota  All RAs All Members and RAs All  Gérard Assyag (IRCAM, CNRS, UPMC) Georgi Stoyanov (Technical University of Sofia)  Yôiti Suzuki  Takeshi Tokuyama Takafumi Aoki  Tatsuo Uchida
11:20-11:50 11:50-13:10 13:10-15:00 15:00-17:00 17:00-19:00 9:00-9:50 9:50-10:30 10:30-10:50 10:50-11:20 11:20-11:50 10:50-11:20 11:20-11:50	5A-1 5A-2 6A-1 6A-2 6A-3 6B-1 6B-2	Atomically Controlled Processing for Future Si-based Devices  Lunch Presentation I & II (Conference Room A: Take(竹)) (14:00-14:10 Break) Session and Exhibition (Conference Room B: Suzume (雀) & Sakura(桜))  Banquet (Hermitage 3F)  Friday, February 24th, 2012  Symbolic Interaction in Sound and Music (Keynote)  High-Accuracy Design and Implementation of All Pass-Based Hilbert Transformers and Fractional Delay Filters (Invited)  Break  Toward Realizing High Sense-of-Presence Communications with 3D Spatial Sound Systems  Efficient Image Segmentation Algorithms with Flexible Shape Control Toward Machine Vision Technology Overcoming the Pixel Resolution Limit From 3D Vision to Medical Imaging  Development of the Next Generation Highly Functional Display Systems The Class of Digital Filters with All Second-Order Modes Equal Probabilistic Computational Models for Statistical Inference and Learning Based on	Junichi Murota  All RAs All Members and RAs All  Gérard Assyag (IRCAM, CNRS, UPMC) Georgi Stoyanov (Technical University of Sofia)  Yôiti Suzuki  Takeshi Tokuyama Takafumi Aoki  Tatsuo Uchida Masayuki Kawamata
11:20-11:50 11:50-13:10 13:10-15:00 15:00-17:00 17:00-19:00 9:00-9:50 9:50-10:30 10:30-10:50 11:20-11:50 11:50-12:20 11:20-11:50 11:50-12:20	5A-1 5A-2 6A-1 6A-2 6A-3 6B-1 6B-2	Atomically Controlled Processing for Future Si-based Devices  Lunch Presentation I & II (Conference Room A: Take(竹)) (14:00-14:10 Break) Session and Exhibition (Conference Room B: Suzume (雀) & Sakura(桜))  Banquet (Hermitage 3F)  Friday, February 24th, 2012  Symbolic Interaction in Sound and Music (Keynote)  High-Accuracy Design and Implementation of All Pass-Based Hilbert Transformers and Fractional Delay Filters (Invited)  Break  Toward Realizing High Sense-of-Presence Communications with 3D Spatial Sound Systems  Efficient Image Segmentation Algorithms with Flexible Shape Control Toward Machine Vision Technology Overcoming the Pixel Resolution Limit From 3D Vision to Medical Imaging Development of the Next Generation Highly Functional Display Systems The Class of Digital Filters with All Second-Order Modes Equal Probabilistic Computational Models for Statistical Inference and Learning Based on Bayesian Analysis and Belief Propagation	Junichi Murota  All RAs All Members and RAs All  Gérard Assyag (IRCAM, CNRS, UPMC) Georgi Stoyanov (Technical University of Sofia)  Yôiti Suzuki  Takeshi Tokuyama Takafumi Aoki  Tatsuo Uchida Masayuki Kawamata
11:20-11:50 11:50-13:10 13:10-15:00 15:00-17:00 17:00-19:00 9:00-9:50 9:50-10:30 10:30-10:50 11:20-11:50 11:50-12:20 11:20-11:50 11:50-12:20 12:20-12:40	5A-1 5A-2 6A-1 6A-2 6B-1 6B-2 6B-3	Atomically Controlled Processing for Future Si-based Devices  Lunch Presentation I & II (Conference Room A: Take(竹)) (14:00-14:10 Break) Session and Exhibition (Conference Room B: Suzume (雀) & Sakura(楼)) Banquet (Hermitage 3F)  Friday, February 24th, 2012  Symbolic Interaction in Sound and Music (Keynote)  High-Accuracy Design and Implementation of All Pass-Based Hilbert Transformers and Fractional Delay Filters (Invited)  Break  Toward Realizing High Sense-of-Presence Communications with 3D Spatial Sound Systems  Efficient Image Segmentation Algorithms with Flexible Shape Control Toward Machine Vision Technology Overcoming the Pixel Resolution Limit From 3D Vision to Medical Imaging Development of the Next Generation Highly Functional Display Systems The Class of Digital Filters with All Second-Order Modes Equal Probabilistic Computational Models for Statistical Inference and Learning Based on Bayesian Analysis and Belief Propagation Break	All RAs All Members and RAs All Members and RAs All Gérard Assyag (IRCAM, CNRS, UPMC) Georgi Stoyanov (Technical University of Sofia)  Yôiti Suzuki Takeshi Tokuyama Takafumi Aoki  Tatsuo Uchida Masayuki Kawamata Kazuyuki Tanaka
11:20-11:50 11:50-13:10 13:10-15:00 15:00-17:00 17:00-19:00 9:00-9:50 9:50-10:30 10:30-10:50 11:20-11:50 11:50-12:20 11:20-11:50 11:20-11:50 11:50-12:20	5A-1 5A-2 6A-1 6A-2 6A-3 6B-1 6B-2	Atomically Controlled Processing for Future Si-based Devices Lunch Presentation I & II (Conference Room A: Take(竹)) (14:00-14:10 Break) Session and Exhibition (Conference Room B: Suzume (雀) & Sakura(楼)) Banquet (Hermitage 3F)  Friday, February 24th, 2012  Symbolic Interaction in Sound and Music (Keynote)  High-Accuracy Design and Implementation of All Pass-Based Hilbert Transformers and Fractional Delay Filters (Invited)  Break  Toward Realizing High Sense-of-Presence Communications with 3D Spatial Sound Systems  Efficient Image Segmentation Algorithms with Flexible Shape Control Toward Machine Vision Technology Overcoming the Pixel Resolution Limit From 3D Vision to Medical Imaging Development of the Next Generation Highly Functional Display Systems The Class of Digital Filters with All Second-Order Modes Equal Probabilistic Computational Models for Statistical Inference and Learning Based on Bayesian Analysis and Belief Propagation  Break  What Future Robots Will Understand by Analyzing Human Movements and Biological	All RAs All Members and RAs All  Gérard Assyag (IRCAM, CNRS, UPMC) Georgi Stoyanov (Technical University of Sofia)  Yôiti Suzuki  Takeshi Tokuyama Takafumi Aoki  Tatsuo Uchida Masayuki Kawamata Kazuyuki Tanaka
11:20-11:50 11:50-13:10 13:10-15:00 15:00-17:00 17:00-19:00 9:00-9:50 9:50-10:30 10:30-10:50 11:20-11:50 11:50-12:20 11:20-11:50 11:50-12:20 11:50-12:20 11:20-11:50 11:50-12:20	5A-1 5A-2 6A-1 6A-2 6B-1 6B-2 6B-3	Atomically Controlled Processing for Future Si-based Devices  Lunch Presentation I & II (Conference Room A: Take(竹)) (14:00-14:10 Break) Session and Exhibition (Conference Room B: Suzume (雀) & Sakura(楼)) Banquet (Hermitage 3F)  Friday, February 24th, 2012  Symbolic Interaction in Sound and Music (Keynote)  High-Accuracy Design and Implementation of All Pass-Based Hilbert Transformers and Fractional Delay Filters (Invited)  Break  Toward Realizing High Sense-of-Presence Communications with 3D Spatial Sound Systems  Efficient Image Segmentation Algorithms with Flexible Shape Control Toward Machine Vision Technology Overcoming the Pixel Resolution Limit From 3D Vision to Medical Imaging Development of the Next Generation Highly Functional Display Systems The Class of Digital Filters with All Second-Order Modes Equal Probabilistic Computational Models for Statistical Inference and Learning Based on Bayesian Analysis and Belief Propagation Break	All RAs All Members and RAs All Members and RAs All  Gérard Assyag (IRCAM, CNRS, UPMC) Georgi Stoyanov (Technical University of Sofia)  Yôiti Suzuki  Takeshi Tokuyama Takafumi Aoki  Tatsuo Uchida Masayuki Kawamata Kazuyuki Tanaka

Location of Session A: Conference Room A (Take:竹), Location of Session B: Conference Room B (Suzume:雀)