□ Program

2021. 11. 05. (Friday)			
Time	Opening		
13:30-13:45	Greeting Speech		
	Prof. Sung-Joon Ye, Dean of Graduate School of Convergence Science and Technology, Seoul National University		
	Prof. Atsushi Konno , Associate Dean of Graduate School of Information Science and Technology, Hokkaido University		
13:45-16:15	Faculty Presentations		
	Session-I (Chair, Prof. Yuanzhe Piao)		
	I-1 13:45-14:10 Assoc. Prof. Satoshi Hiura Division of Electronics for Informatics Title: Room-temperature spin-photon conversion using semiconductor quantum dot I-2 14:10-14:35 Assoc. ProfYoon-Kyu Song Department of Applied Bioengineering Title: DNA-Streptavidin Hybrid Nano-Carrier for Anti-Tumor Drug Delivery I-3 14:35-15:00 Assoc. Prof. Kanako Koyanagi Division of Bioengineering and Bioinformatics Title: Inferring cell differentiation processes based on phylogenetic analysis of epigenomes		
	Session-II (Chair, Prof. Hiroshi Hirata)		
	II-1 15:00-15:25		
	Assoc. Prof. Jae Kyoo Lee		
	Department of Applied Bioengineering Title: Physics and Chemistry of Water at the Interface: Another		

Mystery	of	Water

II-2 15:25-15:50

Asst. Prof. Jeongmin Kim

Department of Applied Bioengineering

Title: Super-resolution fluorescence microscopy for thick biological specimens

II-3 15:50-16:15

Prof. Masaharu Yoshioka

Division of Computer Science and Information Technology Title: Introduction of Collaborative Center for Big data and IoT

16:15-17:45

Graduate Student Presentations (7 min talk + 3 min Q & A)

Session-III (Chair, Prof. Yuanzhe Piao)

III-1 16:15-16:25

Authors: **Jeonghun Oh**, Chang Uk Koo, Jong In Park, Kwon Choi, Hiroshi Hirata, Sung-Joon Ye*

Title: Development of automatically tunable digital EPR spectrometer for L-band in vivo tooth dosimetry

III-2 16:25-16:35

Authors: **Sangeetha Ratnayake**, Luca Simonelli, Axel Martinelli, Toshinori Endo, Luca Varani, Naoki Osada

Title: Computation Docking Scoring Function Tailored to Antibody-Antigen Docking

III-3 16:35-16:45

Authors: **Hyerim Kim**, Yunji Joo, Yun-Min Kook, Na Ly Tran, Sang-Heon Kim, Kangwon Lee*, Seung Ja Oh*

Title: Fabrication of an inflammation-responsive hydrogel for ondemand local immunomodulation in acute wound healing

III-4 16:45-16:55

Authors: Kojiro Machi, Masaharu Yoshioka

Title: Extraction of Chemical Reaction Information from Patent

Documents

Session-IV (Chair, Prof. Hiroshi Hirata)

IV-1 16:55-17:05

Authors: **Kwon Choi**, ChangUk Koo, JeongHun Oh, Sung-Joon Ye Title: Development of EPR Magnet System for in vivo Tooth Dosimetry

IV-2 17:05-17:15

Authors: **Kohei Etou**, Satoshi Hiura, Junichi Takayama, and Akihiro Murayama

Title: Quantum dot spin-polarized light-emitting diodes operating at room temperature

IV-3 17:15-17:25

Authors: **Suyeong Seo**, Seung-Yeol Nah, Kangwon Lee*, Nakwon Choi* and Hong Nam Kim*

Title: Triculture model of in vitro BBB and its application to study BBB-associated chemosensitivity and drug delivery in glioblastoma

IV-4 17:25-17:35

Authors: Naoki Yamato, Hirohiko Niioka, Jun Miyake, and Mamoru Hashimoto

Title: Nerve visualization using coherent Raman scattering rigid endoscope with deep learning-based image processing

IV-5 17:35-17:45

Authors: Hoonil Yang, Yoon-Kyu Song

Title: Enhancement of optical gain of MAPbI3 perovskite thin films passivated by 4-Fluorobenzylammonium iodide surface treatment

17:45-18:15

Discussion on International Collaboration