

Members of the 21st Century COE Program
Nanoelectronics for Tera-bit Information Processing (14 core members)

COE Leader

Atsushi Iwata (58)

Professor

Department of Semiconductor Electronics and Integration Science,

Graduate School of Advanced Sciences of Matter;

Director of Research Center for Nanodevices and Systems

Research Field: System architecture and circuit design

Mamoru Sasaki (41)

Associate Professor

Department of Semiconductor Electronics and Integration Science,

Graduate School of Advanced Sciences of Matter

Research Field: Wireless interconnect scheme for 3-dimensional stack systems

Mattausch Hans Jürgen (51)

Professor

Research Center for Nanodevices and Systems;

Department of Semiconductor Electronics and Integration Science,

Graduate School of Advanced Sciences of Matter

Research Field: Associative-memory-based systems with recognition and learning capability: Research
on the required functional memories

Tetsushi Koide (36)

Associate Professor

Research Center for Nanodevices and Systems;

Department of Semiconductor Electronics and Integration Science,

Graduate School of Advanced Sciences of Matter

Research Field: Image processing front end for associative memory-based systems with recognition
and learning capability

Michiko Miura-Mattausch (54)

Professor

Department of Semiconductor Electronics and Integration Science,

Graduate School of Advanced Sciences of Matter

Research Field: Modeling, linking process/device and circuit

Hiroaki Ueno (31) (~2004.3.31)

Research Associate

Department of Semiconductor Electronics and Integration Science,

Graduate School of Advanced Sciences of Matter

Research Field: Modeling of $1/f$ noise with HiSIM for 100 nm CMOS technology

Kentaro Shibahara (44)

Associate Professor

Research Center for Nanodevices and Systems;

Department of Semiconductor Electronics and Integration Science,

Graduate School of Advanced Sciences of Matter

Research Field: Fundamental device scaling techniques

Hideo Sunami (60)

Professor

Research Center for Nanodevices and Systems;

Department of Semiconductor Electronics and Integration Science,

Graduate School of Advanced Sciences of Matter

Research Field: Research of 3D SOI transistors

Seiichi Miyazaki (45)

Professor

Department of Semiconductor Electronics and Integration Science,

Graduate School of Advanced Sciences of Matter

Research Field: Development of novel functional Si-based devices using self-assembled nanostructures for multivalued memory operation, and ultimate photo-sensing

Seiichiro Higashi (37)

Associate Professor

Department of Semiconductor Electronics and Integration Science,

Graduate School of Advanced Sciences of Matter

Research Field: Si quantum dot formation process technology and optically coupled MOS devices

Hideki Murakami (31)

Research Associate

Department of Semiconductor Electronics and Integration Science,

Graduate School of Advanced Sciences of Matter

Research Field: Low resistive gate electrode/high-k gate dielectrics stacked structure and its device application

Takamaro Kikkawa (52)

Professor

Research Center for Nanodevices and Systems;

Department of Semiconductor Electronics and Integration Science,

Graduate School of Advanced Sciences of Matter

Research Field: Wireless interconnects for high-speed data transmission

Shin Yokoyama (50)

Professor

Research Center for Nanodevices and Systems;

Department of Semiconductor Electronics and Integration Science,

Graduate School of Advanced Sciences of Matter

Research Field: Development of optically interconnected LSI

Anri Nakajima (43)

Associate Professor

Research Center for Nanodevices and Systems;

Department of Semiconductor Electronics and Integration Science,

Graduate School of Advanced Sciences of Matter

Research Field: High-k gate dielectrics for scaled MOS transistors
