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Born: September 15, 1976—Abashiri, Hokkaido, Japan
Nationality: Japanese

Current position

Associate Professor, Nippon Institute of Technology

Areas of specialization

Mathematics; Differential Geometry.

Appointments held

2004-2009 Research Associate, University of Tsukuba, Japan
2009-2014 Assistant Professor, Tokyo Denki University, Japan
2014-Now Associate Professor, Nippon Institute of Technology, Japan

Education

1999 B.A. in Education, Tokyo Gakugei University, Japan
2001 M.A. in Science, University of Tsukuba, Japan
2004 PH.D in Science, University of Tsukuba, Japan

Membership of professional bodies

Member, Mathematical Society of Japan
Member, Japan Society for Symbolic and Algebraic Computation

Grants, honors & awards

2015-2017 Grant-in-Aid for Young Scientists (B), Research Project Number 15K17545
"Geometry of barycenter map on Hadamard manifolds admitting Busemann-Poisson kernel"

Publications

Journal articles

2002 M. Itoh and H. Satoh (2002), "Isolation of the Weyl conformal tensor for Einstein manifolds", *Proc. Japan Acad. Ser. A* 78: 140-143

2004 H. Satoh (2004), "Compact almost Kähler manifolds with divergence-free Weyl comformal tensor", *Ann. Global Anal. Geom.* 26: 107-116.

2005 H. Satoh (2005), "4-dimensional almost Kähler manifolds and L2-scalar curvature functional", *Differential Geom. Appl.* 23: 114-127.

2008 M. Itoh, H. Satoh and Y. Shishido (2008), "A note on the Fisher information metric and heat kernels", *Int. J. Pure Appl. Math.* 46: 347-353.

2010 M. Itoh and H. Satoh (2010), "Information geometry of Poisson kernels on Damek-Ricci spaces", *Tokyo J. Math.* 33: 129-144.

2011 M. Itoh and H. Satoh (2011), "The Fisher information metric, Poisson kernels and harmonic maps", *Differential Geom. Appl.* 29, Supplement 1: S107-S115.

2013 M. Itoh and H. Satoh (2013), "Horospheres and hyperbolic spaces", *Kyushu J. Math.* 67: 309-326.

2014 M. Itoh, H. Satoh and Y.J. Suh (2014), "Horospheres and hyperbolicity of Hadamard manifolds", *Differential Geom. Appl.* 35, Supplement: 50-68.

2015a M. Itoh and H. Satoh (2015), "Geometry of Fisher information metric and the barycenter map", *Entropy* 17: 1814-1849.

2015b M. Itoh and H. Satoh (2015), "Information geometry of busemann-barycenter for probability measures", *Intern. J. Math.* 26.

2016 M. Itoh, S. H. Kim, J. H. Park and H. Satoh, "Harmonic Hadamard manifolds of prescribed Ricci curvature and volume entropy", *Kyushu J. Math.* 70: 267-280.

Teaching

Linear Algebra
Calculus
Differential Equations
Vector Analysis
Complex Analysis
Probability and Statistics