

# CURRICULUM VITAE

## Keiichi Tamura

### *Doctor of Information Science*

Associate Professor,  
Graduate School of Information Sciences,  
Hiroshima City University, JAPAN

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### **Education:**

- Ph.D., Department of Intelligent Systems, Graduate School of Information Science and Electrical Engineering, Kyushu University, Kyushu University, September 2005.
- M.E., Department of Intelligent Systems, Graduate School of Information Science and Electrical Engineering, Kyushu University, March 2000.
- B.E., Department of Electrical Engineering and Computer Science, Faculty of Engineering, Kyushu University, March 1998.

### **Employment:**

April 2011 - present

Associate Professor, Graduate School of Information Sciences, Hiroshima City University,  
JAPAN

April 2008 - March 2010

Lecturer, Graduate School of Information Sciences, Hiroshima City University, JAPAN

April 2007 - March 2008

Research Associate, Graduate School of Information Sciences, Hiroshima City University,  
JAPAN

April 2002 - March 2007

Research Associate, Faculty of Information Sciences, Hiroshima City University, JAPAN

### **Research Topics:**

Data Mining, Intelligent Social Data and Big Data Analysis, Database System, Parallel Processing

## **Professional Society Memberships:**

IEEE

IEEE Computer Society Member

IEEE SMC Society Member

Information Processing Society of Japan (IPSJ)

Database Society of Japan (DBSJ)

## **Professional Activities:**

- Organizer
  - Secretary of IEEE SMC Hiroshima SECTION Chapter (January 2013 – December 2014)
  - Treasurer of IEEE SMC Hiroshima SECTION Chapter (January 2012 – December 2012)
  
- Gest Editor
  - Special Issue of SpringerPlus “Innovative Cloud Application in Computer Intelligence” (2014- )
  
- General Chair
  - 2013 IEEE SMC Hiroshima Chapter Young Researchers’ Workshop
  
- Vice Co-Chairs
  - 2014 IEEE SMC Hiroshima Chapter Young Researchers’ Workshop
  
- Program Co-Chairs
  - IEEE 7<sup>th</sup> International Workshops on Computer Intelligence and Applications (IWCIA2014)
  
- Program Committee Member
  - The 2014 IEEE International Conference on Systems, Man, and Cybernetics (SMC2014)
  - IEEE 7<sup>th</sup> International Workshops on Computer Intelligence and Applications (IWCIA2014)
  - Special Sessions' Committee Member of The 2013 IEEE International Conference on Systems, Man, and Cybernetics (SMC2013)
  - IEEE 6<sup>th</sup> International Workshops on Computer Intelligence and Applications (IWCIA2013)
  - Special Sessions' Committee Member of The 2012 IEEE International Conference on Systems, Man, and Cybernetics (SMC2012)

## **Selected Publications:**

- Keiichi Tamura, and Hajime Kitakami,

- “Island-Model-based Distributed Modified Extremal Optimization with Tabu Lists for Reducing Crossovers in Reconciliation Graph,” in Proceedings of the International MultiConference of Engineers and Computer Scientists 2014 Vol I, pp.1-6, March 2014.
- Yosuke Watanuki, Keiichi Tamura, Hajime Kitakami, and Yoshifumi Takahashi, “Multiple Buffering for Parallel Approximate Sequence Matching using Disk-based Suffix Tree on Multi-core CPU,” GSTF Journal on Computing (JoC), Vol.3, No.3, pp.51-57, February 2014.
  - Keiichi Tamura, and Takumi Ichimura, “Density-based Spatiotemporal Clustering Algorithm for Extracting Bursty Areas from Georeferenced Documents,” in Proceedings of The 2013 IEEE International Conference on Systems, Man, and Cybernetics (IEEE SMC 2013), pp.2079 - 2084, October 2013.
  - Keiichi Tamura, Hajime Kitakami, and Akihiro Nakada, “Distributed Modified Extremal Optimization using Island Model for Reducing Crossovers in Reconciliation Graph,” Engineering Letters, International Association of Engineers, Vol.21, Issue.2, pp.81-88, May 2013.
  - Yagi Shinpei, Keiichi Tamura, and Hajime Kitakami, “Parallel processing for stepwise generalisation method on multi-core PC cluster,” Special Issue on "Advanced Soft Computing Methodologies and Applications in Web Intelligences," International Journal of Knowledge and Web Intelligence (IJKWI), Inderscience Publishers, Vol. 3, No. 2, pp.88-109, 2012.
  - Natsumi Hara, Keiichi Tamura, and Hajime Kitakami, “Modified EO-based Evolutionary Algorithm for Reducing Crossovers of Reconciliation Graph,” in Proceedings of Second World Congress on Nature and Biologically Inspired Computing (NaBIC2010), pp.169-176, December 2010.
  - Keiichi Tamura, Hiroaki Kimura, Kotaro Araki, and Hajime Kitakami, “An Efficient Method for Extracting Minimum Generalized Set of Mismatch Clusters by Step-Wise Generalization,” The IEICE transactions on information and systems (Japanese edition) J93-D(3), 189-202, March 2010.
  - Makoto Takaki, Keiichi Tamura, Toshihide Sutou, and Hajime Kitakami, “A New Dynamic Load Balancing Technique for Parallel Modified PrefixSpan with Distributed Worker Paradigm and Its Performance Evaluation,” Lecture Notes in Computer Science (LNCS), Springer-Verlag, Vol.4759, pp.227-237, January 2008.
  - Kotaro Araki, Keiichi Tamura, Tomoyuki Kato, Yasuma Mori, and Hajime Kitakami, “Extraction of Ambiguous Sequential Patterns with Least Minimum Generalization from Mismatch Clusters,” in Proceedings of The Third International Conference on Signal-Image Technology & Internet-Base system (SITIS' 2007): Track Information Management & Retrieval Technologies (IMRT), the IEEE Computer Society Press, pp.32-39, December 16-19 in 2007.
  - Makoto Takaki, Keiichi Tamura, and Hajime Kitakami “Dynamic Load Balancing Technique for Modified PrefixSpan on a Grid Environment with Distributed Worker Model,” in Proceedings

of The 2006 International Conference on Parallel and Distributed Processing Techniques and Applications (PDPTA'06 & RTCOMP'06), Vol.II, Las Vegas, Nevada, USA, pp.895-901, June 26-30, 2006.

- Toshihide Sutou, Keiichi Tamura, Yasuma Mori and Hajime Kitakami, “Design and Implementation of Parallel Modified PrefixSpan Method,” Lecture Notes in Computer Science (LNCS), Springer-Verlag, Vol.2327, pp.412-422, October 2003.
- Keiichi Tamura, Yuya Nakano, Kunihiko Kaneko, and Akifumi Makinouchi, “The parallel processing of spatial selection for very large geo-spatial databases, in Proceedings of the Eighth Int. Conf. on Parallel and Distributed Systems,” pp.721-726, June 2001.

### **Awards:**

- Best Paper Award for The 2014 IAENG International Conference on Artificial Intelligence and Applications
- Certificate of Merit for The 2013 IAENG International Conference on Artificial Intelligence and Applications

### **Grants:**

- Grant-in-aid for scientific research (KAKENHI) 26330139, promoter  
Value: JPY 3,500,000  
Period: FY2014-FY2016
- Grant-in-aid for scientific research (KAKENHI) 23700124, promoter  
Value: JPY 2,900,000  
Period: FY2011-FY2012
- Grant-in-aid for scientific research (KAKENHI) 20700095, promoter  
Value: JPY 2,700,000  
Period: FY2008-FY2009
- Grant-in-aid for scientific research (KAKENHI) 18700094, promoter  
Value: JPY 2,900,000  
Period: FY2006-FY2007
- Grant-in-aid for scientific research (KAKENHI) 16700114, promoter  
Value: JPY 2,100,000  
Period: FY2004-FY2005