BIOGRAPHICAL SKETCH

NAME	POSITION TITLE
Kouki Nagamune	Associate Professor

AFFILIATION
Department of Human and Artificial Intelligent Systems, Graduate School of Engineering, University of Fukui
3-9-1 Bunkyo, Fukui 910-8507 JAPAN
TEL +81-776-27-8037, FAX +81-776-27-8037, E-mail: nagamune@u-fukui.ac.jp

EDUCATION/TRAINING			
Faculty of Engineering, Himeji Institute of Technology, (JAPAN)	B.E.	1999	Computer Engineering
Graduate School of Engineering, Himeji Institute of Technology, (JAPAN)	M.E.	2001	Computer Engineering
Graduate School of Engineering, Himeji Institute of Technology, (JAPAN)	Ph.D.	2004	Computer Engineering

Academic Appointments

2004-2006	Research Assistant, Kobe University Graduate School of Medicine, JAPAN
2006-2007	Lecturer, Kobe University Graduate School of Medicine, JAPAN
2007-2010	Lecturer, Graduate School of Engineering, University of Fukui, JAPAN
2010-Present	Associate Professor, Graduate School of Engineering, University of Fukui, JAPAN

Professional Experience

1999 - present   Institute of Electrical and Electronics Engineers, Member

2001 - present   Institute of Electronics, Information and Communication Engineers, Member

2004 - present   Japanese Society for Clinical Biomechanics, Councilor

2006 - present   International Journal of Intelligent Computing in Medical Informatics and Image Processing, Members of Board of Associate Editors

2006, 08, 10, 12, 14, 16   International Forum on Multimedia and Image Processing, Program Committee Member

2007 - present   Department of Orhtopaedic Surgery, Kobe University Graduate School of Medicine, Special Fellow

2008 - present   Japanese Society for Medical and Biological Engineering, Member.

2012 - present   IEEE Systems, Man, and Cybernetics, Technical Committee Member on Medical Informatics

2012, 13, 14, 15 IEEE International Conference on Systems, Man and Cybernetics, Program Committee Member.

2013- present   Arthrex (Developer of Surgery Instrument in USA), Technical Consultant

Awards

2002	Best Paper Award at the Fourth Biannual World Automated Congress (Orlando, Florida, USA)
2005	The finalists for the 2005 Young Researchers of Orthopaedics, Biomechanics/Biology, Operative Techniques and Sports (Y-ROBOTS) Award (Assisi, Italy)
2005	*The best paper of the year, basica, Japanese Journal of the Knee*
2010	*AAC2010 Best Achievement Award (Silver) at the 2nd Biennial Asia Arthroscopy Congress Beijing, China)*
2011	*ISAKOS Top 10 E-poster Award at The 8th Biennial ISAKOS Congress (Rio de Janeiro, Brazil)*
2013	*SICOT / CCJR Meeting Awards (Hederabad, India)*
2015	*Young Researcher Award in Journal of Advanced Computational Intelligence and Intelligent Informatics.*

English Journal Papers with Referee

[1] Ultrasonic Nondestructive Evaluation for Embedded Objects in Concrete Aided by Fuzzy Logic
Kouki Nagamune, Kazuhiko Taniguchi, Syoji Kobashi, Yutaka Hata
IEICE Transactions on Information and Systems vol. E86-D, no. 1, pp. 79-88, Jan., 2003

[2] A Fuzzy Inference System for Identifying Tissue Elasticity using Ultrasound
Tadashi Kimura, **Kouki Nagamune**, Syoji Kobashi, Katsuya Kondo, Yutaka Hata, Kazuhiko Taniguchi
Journal of Advanced Computational Intelligence and Intelligent Informatics, vol. 7, no. 1, pp. 31-39, Jan., 2003

[3] Automated Extraction System of Embedded Tubes from Pulse Radar Image Based on Fuzzy Expert System
Kouki Nagamune, Kazuhiko Taniguchi, Syoji Kobashi, Yutaka Hata
IEICE Transactions on Fundamentals of Electronics, Communications and Computer Sciences, vol. E86-A, no. 7, pp. 1778-1789, July., 2003

[4] Unconstrained Evaluation System for Heart Rate Using Ultrasonic Vibrograph
Kouki Nagamune, Syoji Kobashi, Katsuya kondo, Yutaka Hata, Kazuhiko Taniguchi, Toshiyuki Sawayama
Japanese Journal of Applied Physics, vol. 43, no. 5B, pp. 3237-3238, May, 2004

[5] Double-bundle ACL reconstruction can improve rotational stability - Prospective comparison of three different procedures (double-bundle, AM and PL single-bundle reconstruction) -
Masayoshi Yagi, Ryosuke Kuroda, **Kouki Nagamune**, Shinichi Yoshiya, Masahiro Kurosaka
Clinical Orthopaedic and Related Research, vol. 454, pp. 100-107, Jan., 2007

[6] The Effect of Graft Tensioning in Anatomic 2-bundle ACL Reconstruction on Knee Joint
Yuichi Hoshino, Ryosuke Kuroda, **Kouki Nagamune**, Koji Nishimoto, Masayoshi Yahi, Kiyonori Mizuno, Shinichi Yoshiya, Masahiro Kurosaka
Journal of Knee Surgery, Sports Traumatology, Arthroscopy, vol. 15, no. 5, pp. 508-514, May, 2007

[7] In Vivo Measurement of the Pivot Shift Test in the Anterior Cruciate Ligament Deficient Knee Using an Electromagnetic Device
Yuichi Hoshino, Hirotsugu Muratsu, **Kouki Nagamune**, Masayoshi Yagi, Kiyonoryi Mizuno, Ryosuke Kuroda, Motoi Yamaguchi, Shinichi Yoshiya, Masahiro Kurosaka
American Journal of Sports Medicine, vol. 35, no. 7, pp. 1098-1104, Jul., 2007

[8] An Automated Calculation of Three-Dimensional Evaluation of Canal Fill Ratio of the Stem in the Femoral Bone from CT Image
Kouki Nagamune, Nao Shibanuma, Masahiro Kurosaka
International Journal of Intelligent Computing in Medical Sciences and Image Processing, vol. 1, no. 2(1), pp.131-137, Nov., 2007

[9] Ultrasonography System Aided by Fuzzy Logic for Identifying Implant Position in Bone
Endo Maki, **Kouki Nagamune**, Nao Shibanuma, Syoji Kobashi, Katsuya Kondo Yutaka Hata
IEICE Transactions on Information and Systems vol. E90-D, no. 12, pp. 1990-1997, Dec., 2007

[10] Intraoperative Measurement of Pivot Shift by Electromagnetic Sensors
Ryosuke Kuroda, Yuichi Hoshino, **Kouki Nagamune**, Seiji Kubo, Koji Nishimoto, Daisuke Araki, Motoi Yamaguchi, Shinichi Yoshiya, Masahiro Kurosaka
Operative Techniques in Orthopaedics, vol. 18, no. 3, pp.190-195, July, 2008

[11] Analysis of the graft bending angle at the femoral tunnel aperture in anatomic double bundle anterior cruciate ligament reconstruction: a comparison of the transtibial and the far anteromedial portal technique
Kouji Nishimoto, Ryosuke Kuroda, Kiyonori Mizuno, Yuichi Hoshino, **Kouki Nagamune**, Seiji Kubo, Masayoshi Yagi, Motoi Yamaguchi, Shinichi Yoshiya, Masahiro Kurosaka.
Knee Surg Sports Traumatol Arthrosc., vol. 17, no. 3, pp.270-276, Mar., 2009

[12] The effect of intra-operative knee flexion angle on determination of graft location in the anatomic double-bundle ACL reconstruction
Yuichi Hoshino, **Kouki Nagamune**, Ryosuke Kuroda, Masahiro Yagi, Daisuke Araki, Seiji Kubo, Masahiro Kurosaka
Knee Surg Sports Traumatol Arthrosc. vol. 17, no. 9, pp.1052-1060, Sept., 2009

[13] Nondestructive evaluation of cell numbers in bone marrow stromal cells $/\beta$-tricalcium phosphate composites using ultrasound
Keisuke Oe, Masahiko Miwa, **Kouki Nagamune**, Yoshitada Sakai, Sang Yang Lee, Takahiro Niikura, Takashi Iwakura, Takumi Hasegawa, Nao Shibanuma, Yutaka Hata, Ryosuke Kuroda, Masahiro Kurosaka
Tissue Engineering Part C: Methods., vol. 16, no. 3, pp. 347-353 Jun.., 2010

[14] A prospective randomised study of anatomical single-bundle versus double-bundle anterior cruciate ligament reconstruction: quantitative evaluation using an electromagnetic measurement system
Daisuke Araki, Ryosuke Kuroda, Seiji Kubo, Norifumi Fujita, Katsumasa Tei, Koji Nishimoto, Yuichi Hoshino, Takehiko Matsushita , Tomoyuki Matsumoto, **Koki Nagamune**, Masahiro Kurosaka.
Int Orthop. vol. 35, no. 3, pp. 439-446, Mar.., 2010.

[15] The use of an electromagnetic measurement system for anterior tibial displacement during the Lachman test.
Daisuke Araki, Ryosuke Kuroda, Seiji Kubo, **Kouki Nagamune**, Yuichi Hoshino, Koji Nishimoto, Koji Takayama, Takehiko Matsushita, Katsumasa Tei, Motoi Yamaguchi, Masahiro Kurosaka
Arthroscopy. vol. 27, no. 6, pp. 792-802, June 2011.

[16] Optimal measurement of clinical rotational test for evaluating anterior cruciate ligament insufficiency.
Yuichi Hoshino, Ryosuke Kuroda, **Kouki Nagamune**, Daisuke Araki, Seiji Kubo, Motoi Yamaguchi, Masahiro Kurosaka.
Knee Surg Sports Traumatol Arthrosc. vol. 20, no. 7, pp. 1323-1330, July 2012.

[17] Similarities and differences of diagnostic manual tests for anterior cruciate ligament insufficiency: A global survey and kinematics assessment.

Ryosuke Kuroda, Yuichi Hoshino, Seiji Kubo, Daisuke Araki, Shinya Oka, **Kouki Nagamune**, Masahiro Kurosaka. Am J Sports Med. vol. 40, no. 1, pp. 91-99, Jan. 2012.

[18] Quantitative measurement of the pivot shift, reliability, and clinical application.
Ryosuke Kuroda, Yuichi Hoshino, Daisuke Araki, Yuichiro Nishizawa, **Kouki Nagamune**, Tomoyuki Matsumoto, Seiji Kubo, Takehiko Matsushita, Masahiro Kurosaka
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[19] Clinical grading of the pivot shift test correlates best with tibial acceleration.
Mattias Ahldén, Paulo Araujo, Yuichi Hoshino, Kristian Samuelsson, Kellie K. Middleton, **Kouki Nagamune**, Jón Karlsson, Volker Musahl
Knee Surg. Sports Traumatol. Arthrosc. vol. 20, no. 4, pp. 708-712, Apr. 2012.

[20] The effect of platelet-rich plasma on the regenerative therapy of muscle derived stem cells for articular cartilage repair
Y. Mifune, T. Matsumoto, K. Takayama, S. Ota, H. Li, L.B. Meszaros, A. Usas, **K. Nagamune**, B. Gharaibeh, F.H. Fu, J. Huard
Osteoarthritis Cartilage. vol. 21, no. 1, pp. 175-185, Jan. 2013.

[21] Modified metaphyseal-loading anterolaterally flared anatomic femoral stem: five- to nine-year prospective follow-up evaluation and results of three-dimensional finite element Analysis.
Yasuo Kokubo, Kenzo Uchida, Hisashi Oki, Kohei Negoro, **Kouki Nagamune**, Shogo Kawaguchi, Kenichi Takeno, Takafumi Yayama, Hideaki Nakajima, Daisuke Sugita, Ai Yoshida, and Hisatoshi Baba
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Dausyje Araki, Ryosuke Kuroda, Tomoyuki Matsumoto, **Kouki Nagamune**, Takehiko Matsushita, Seiji Kubo, Yasunari Oniki, Masahiro Kurosaka.
Knee Surg Sports Traumatol Arthrosc. vol. 21, no. 8, pp.1794-1800, Aug. 2013.

[25] Biomechanical characteristics of three pivot shift maneuvers for the anterior cruciate ligament-deficient knee: In vivo evaluations using an electromagnetic sensor system, Nobuto Kitamura, Masashi Yokota, Eiji Kondo, Shin Miyatake, **Kouki Nagamune**, Kazunori Yasuda, Am J Sports Med. Vol. 41, no, 11, pp. 2500-2506, Nov. 2013.

[26] A Bone Segmentation for the Knee Joint in MDCT Image Based on Anatomical Information, Yosuke Uozumi, **Kouki Nagamune**, Daisuke Araki, Yuichi Hoshino, Takehiko Matsushita, Ryosuke Kuroda, Masahiro Kurosaka, International Journal of Intelligent Computing, vol. 5, no. 2, pp. 105-113, Dec. 2013.

[27] An Automatic Three-dimensional Evaluation of Screw Placement After Anterior Cruciate Ligament Reconstruction Using MDCT Images, Yosuke Uozumi, **Kouki Nagamune**, Yuichiro Nishizawa, Daisuke Araki, Yuichi Hoshino, Takehiko Matsushita, Ryosuke Kuroda, and Masahiro Kurosaka, Journal of Advanced Computational Intelligence and Intelligent Informatics, vol. 17, no. 6, pp. 818-827, Dec. 2013.

[28] Matching Articular Surfaces of Selected Donor and Recipient Sites for Cylindrical Osteochondral Grafts of the Femur: Quantitative Evaluation Using a Three-Dimensional Laser Scanner, Yuichiro Nishizawa, Tomoyuki Matsumoto, Daisuke Araki, **Kouki Nagamune**, Takehiko Matsushita, Masahiro Kurosaka, Ryosuke Kuroda, Am J Sports Med. Vol. 42, no. 3, pp. 658-664, Mar. 2014.

[29] A Development of Force Distribution Measurement System with High Resolution for Total Knee Arthroplasty
Mohd Hanafi Mat Som, Takashi Kamiya, Shogo Kawaguchi, **Kouki Nagamune**, Koji Takayama, Tomoyuki Matsumoto, Ryosuke Kuroda, Masahiro Kurosaka
Journal of Advanced Computational Intelligence and Intelligent Informatics, vol. 18, no. 2, Mar. 2014.

[30] Reduction of tunnel enlargement with use of autologous ruptured tissue in anterior cruciate ligament reconstruction: a pilot clinical trial
Matsumoto Tomoyuki, Kuroda Ryosuke, Matsushita Takehiko, Araki Daisuke, Hoshino Yuichi, **Nagamune Kouki**, Kurosaka Masahiro.
Arthroscopy, vol. 30, no. 4, pp. 468-474, Apr. 2014.

[31] An Ultrasound Technique of Bone Thickness Estimation for Pedicle Screw Insertion
Muhamad Khairul Ali Hassan, **Kouki Nagamune**, Kenichiro Kakutani, Koichiro Maeno, Kotaro Nishida, Masahiro Kurosaka
Journal of Advanced Computational Intelligence and Intelligent Informatics, vol. 18, no. 4, Jul. 2014.

[32] Three-Dimensional Analysis of Bone Tunnel Changes After Anatomic Double-Bundle Anterior Cruciate Ligament Reconstruction Using Multidetector-Row Computed Tomography.
Araki Daisuke, Kuroda Ryosuke, Matsumoto Tomoyuki, **Nagamune Kouki**, Matsushita Take-hiko, Hoshino Yuichi, Oka Shinya, Nishizawa Yuichiro, Kurosaka Masahiro.
Am J Sports Med., vol. 42, no. 9, pp. 2234-2241, Sep. 2014.

[33] A Three-dimensional Evaluation of EndoButton Displacement Direction After Anterior Cruci-ate Ligament Reconstruction in CT Image Using Tunnel Axis.
Yosuke Uozumi, **Kouki Nagamune**, Naoki Nakano, Kanto Nagai, Yuichiro Nishizawa, Yuichi Hoshino, Takehiko Matsushita, Ryosuke Kuroda, Masahiro Kurosaka.

Journal of Advanced Computational Intelligence and Intelligent Informatics, vol. 18, no. 5, Sep. 2014.

[34] Performance Comparison of Conductive Rubber-based Sensor Array Calibration Using Cubic Spline and Back Propagation Neural Network.
Mohd Hanafi Mat Som, **Kouki Nagamune**, Shogo Kawaguchi.
Information, vol. 18, no. 2, pp. 673-688, Feb., 2015.

[35] Analysis of Multiple Ultrasound Echoes for Cortical Bone Thickness Measurement Using Wavelet Decomposition Processing Method.
Muhamad Khairul Ali Hassan, **Kouki Nagamune**, Kenichiro Kakutani, Koichiro Maeno, Kotaro Nishida, Masahiro Kurosaka.
Information, vol. 18, no. 2, pp. 779-794, Feb. 2015.

[36] A Marching Cubes Algorithm: Application for Three-dimensional Surface Reconstruction Based on Endoscope and Optical Fiber.
Zhongjie Long, **Kouki Nagamune**.
Information, vol.18, no.4, pp.1425-1438, April 2015.

[37] Fully Automated Determination of Femoral Coordinate System in CT Image Based on Epi-condyles
Yosuke Uozumi, **Kouki Nagamune**, Naoki Nakano, Kanto Nagai, Daisuke Araki, Yuichi Hoshino, Takehiko Matsushita, Ryosuke Kuroda, and Masahiro Kurosaka
Journal of Advanced Computational Intelligence and Intelligent Informatics, vol. 19, no. 3, pp. 372-380, May, 2015.

[38] Quantitative comparison of the pivot shift test results before and after anterior cruciate ligament reconstruction by using the three-dimensional electromagnetic measurement system
Kanto Nagai, Yuichi Hoshino, Yuichiro Nishizawa, Daisuke Araki, Takehiko Matsushita, Tomoyuki Matsumoto, Koji Takayama, **Kouki Nagamune**, Masahiro Kurosaka, Ryosuke Kuroda
Knee Surgery, Sports Traumatology, Arthroscopy, vol. 23, pp. 2876-2881, Sept. 2015.

[39] A Comparison of Ligament Tensions Between Intra- and Extra-Articular Measurement in Anterior Cruciate Ligament Reconstruction
Shogo Kawaguchi, **Kouki Nagamune**, Yuichiro Nishizawa, Shinya Oka, Daisuke Araki, Yuichi Hoshino, Takehiko Matsushita, Ryosuke Kuroda, Masahiro Kurosaka
Journal of Advanced Computational Intelligence and Intelligent Informatics, vol. 19, no. 6, pp. 778-784, Nov. 2015.

[40] An Evaluation Method of Hardness on Quantitative Measurement System for Lachman Test Using Force Sensor
Shogo Kawaguchi, **Kouki Nagamune**, Yuichiro Nishizawa, Daisuke Araki, Yuichi Hoshino, Tomoyuki Matsumoto, Takehiko Matsushita, Ryosuke Kuroda, Masahiro Kurosaka
Information, vol. 19. no. 6, pp. 778-784, Nov. 2015.

[41] A Development of Manual Measurement System with Stereo Markers for Lachman Test
Zhongjie Long, Shogo Kawaguchi, **Kouki Nagamune**
Journal of Advanced Computational Intelligence and Intelligent Informatics, vol. 20, no. 2, (accepted), 2016.

[42] Underwater 3D Imaging of Fiber-based Endoscopic System for Arthroscopic Surgery
Zhongjie Long, **Kouki Nagamune**
Journal of Advanced Computational Intelligence and Intelligent Informatics, (accepted), 2016

[43] A propagation time difference evaluation for a clamp-on ultrasonic flowmeter for low-pressure gas
Hiroshi Nishiguchi, Toshiyuki Sawayama, **Kouki Nagamune**
Journal of Japanese Applied Physics, (accepted), 2016.

[44] A study on ultrasonic wave detection method for clamp-on ultrasonic gas flowmeter
Hiroshi Nishiguchi, Toshiyuki Sawayama, **Kouki Nagamune**
Journal of Control, Measurement, and System Integration, (accepted), 2016.

Proceedings with Referee

[1] Three-Dimensional Imaging of the Internal Structure in the Concrete by Fuzzy Inference
Kazuhiko Taniguchi, Takashi Matsumoto, **Kouki Nagamune**, and Yutaka Hata
Proc. Second Int. Forum on Multimedia and Image Processing, pp. 284-289, Hawaii, USA, Jun., 2000

[2] Automated Extraction of Buried Pipes from 3D Ultrasonic Images by Fuzzy Inference
Kouki Nagamune, Yutaka Hata, and Kazuhiko Taniguchi
Proc. WCC Int. Conf. on Signal Processing 2000, pp. 877-881, Beijing, China, Aug. 2000

[3] An Automated Tissue Discrimination Based on Fuzzy Analysis of Ultrasonic Wave
Keisuke Sugano, **Kouki Nagamune,** Syoji Kobashi, Yutaka Hata, Tomoyuki Sawayama, and Kazuhiko Taniguchi
Proc. of Knowledge-Based Intelligent Information Engineering Systems and Allied Technologies, pp. 431-435, Osaka, Japan, Sep. 2001

[4] Inherent Wave Estimation on Ultrasonic Non-Destructive Testing using Fuzzy Inference
Kouki Nagamune, Yutaka Hata, and Kazuhiko Taniguchi
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[5] Ultrasound Diagnosis in Medical Engineering
Kouki Nagamune, Syoji Kobashi, Yutaka Hata, Tomoyuki Sawayama, and Kazuhiko Taniguchi
Proc. of First Vietnam Japan Symposium on Medical Imaging/Informatics and Applications, pp. 30-36, Hanoi, Vietnam, Nov. 2001

[6] Challenge to the Development of a Transcranial Sonography System
Kouki Nagamune, Syoji Kobashi, Katsuya Kondo, Yutaka Hata, Yuri Kitamura, and Toshio Yanagidai
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[7] Automated Design of Non-Destructive Testing System by Genetic Algorithms
Kouki Nagamune, Kazuhiko Taniguchi, Syoji Kobashi, and Yutaka Hata
Proc. of the fourth International Forum on Multimedia and Image Processing, pp. 159-164, Florida, USA, Jun., 2002

[8] Tissue Elasticity Estimation from Ultrasonic Waveform Using Fuzzy Inference
Tadashi Kimura, **Kouki Nagamune**, Syoji Kobashi, Katsuya Kondo, Yutaka Hata, and Kazuhiko Taniguchi
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[9] An Automated Ultrasound Discrimination System of Tissue under an Obstacle by Fuzzy Reasoning
Takashi Shimizu, **Kouki Nagamune**, Syoji Kobashi, Katsuya Kondo, Yutaka Hata, Yuri T. Kitamura, and Toshio Yanagida
Proc. of Joint 1st Int. Conf. on Soft Computing and Intelligent Systems, 24P6-1, Tsukuba, Japan, Oct., 2002

[10] Comparison between Ultrasonic and Pulse-Radar Non-Destructive Testing Systems
Kouki Nagamune, Kazuhiko Taniguchi, Syoji Kobashi, Katsuya Kondo, and Yutaka Hata
Proc. 1st Int. Conf. on Information Technology & Applications, 257-6, Bathurst, Australia, Nov., 2002

[11] An Ultrasonic Evaluation for Degradation of Insulting Oil Using Fuzzy Inference
Kouki Nagamune, Kazuhiko Taniguchi, Syoji Kobashi, Katsuya Kondo, and Yutaka Hata
Proc. of 2003 IEEE Int. Ultrasonics Symposium, pp.893-896, Hawaii, USA, Oct., 2003

[12] Three-Dimeinsional Bone Shape Sonography System Aided by Fuzzy Logic
Tadashi Kimura, **Kouki Nagamune,** Syoji Kobashi, Katsuya Kondo, Yutaka Hata, Yuri T. Kitamura, and Toshio Yanagida
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[13] Skull and Brain Visualization by Transranial Sonography System
Takashi Shimizu, **Kouki Nagamune,** Syoji Kobashi, Katsuya Kondo, Yutaka Hata, Yuri T. Kitamura, and Toshio Yanagida
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[14] Fuzzy Diagnosis for Bonding Degree of Femur Stem by Using Ultrasonic Wave
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[15] Ultrasonography System of Implant in Bones for Orthopedic Surgery
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[16] Fuzzy Determination of Anatomical Reference Points in 3D Kinematical Measurement for Human Body
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[17] Fuzzy Ultrasonography System for Estimating Roughness by Using 1MHz Probe
Kensuke Iseri, Syoji. Kobashi, Katsuya Kondo, Yutaka Hata, **Kouki Nagamune**
Proc. of Joint 2nd International Conference on Soft Computing and Intelligent Systems and 5th International Symposium on Advanced Intelligent Systems, FE-2-6 Yokohama, Japan, Sep., 2004

[18] Ultrasonography System for Finding Distal Transverse Screw Hole of Intramedullary Nail
Maki Endo, **Kouki Nagamune,** Nao Shibanuma, Syoji Kobashi, Katsuya Kondo, and Yutaka Hata
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[21] Medical Ultrasonic System Aided by Fuzzy Logic
Yutaka Hata, and **Kouki Nagamune**
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[22] A Determination Method of the Femoral and Tibial Bone Coordinate Systems by Integrating Ultrasound Device with 3D Electromagnetic Device
Kouki Nagamune, Hirotsugu Muratsu, Koji Nishimoto, Yuichi Hoshino, Koichi Tanaka, Kiyonori Mizuno, Masayoshi Yagi, Ryosuke Kuroda, Shinich Yoshiya, and Masahiro Kurosaka
Proc. of International Conference on Soft Computing and Intelligent Systems, pp.1842-1847, Tokyo, Japan, Aug., 2006

[23] A Fuzzy Estimation System for Cellular Quantity of Artificial Culture Bone
Satoshi Yamaguchi, **Kouki Nagamune**, Keisuke Oe, Syoji Kobashi, Katsuya Kondo, and Yutaka Hata
Proc. of International Conference on Complex Medical Engineering, pp.427-430, Beijing, China, May, 2007.

[24] Automatic Extraction Method of Bone Tunnel of the Anterior Cruciate Ligament from Multi Detector Row

Computed Tomography Data
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Satoshi Yamaguchi, **Kouki Nagamune,** Keisuke Oe, Syoji Kobashi, Katsuya Kondo and Yutaka Hata
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[26] Reproducibility of Real-Time Knee Kinematicsmeasurement System Using Electromagnetic Device
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Proc. of the Sixth International Forum on Multimedia and Image Processing, ifmip-012, Hawaii, USA, Oct., 2008

[27] Estimation System of Affection Due To Pointing Error In Navigation System of Total Hip Arthroplasty
Kouki Nagamune, Takaaki Fujishiro, Takayuki Nishiyama, Ryosuke Kuroda, and Masahiro Kurosaka
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Kouki Nagamune, Dasiuke Araki, Yuichi Hoshino, Seiji Kubo, Ryosuke Kuroda, and Masahiro Kurosaka
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[29] Computer-Assisted Designing System for Fixation Plate
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