

Publications

A. Refereed Papers in International Journals

A1. Publications from 2020 to 2011 (NTU, Singapore and University of Geneva, Switzerland)

1. Yuyun Cai, Linhao Ge, Jianfei Cai, Nadia Magnenat Thalmann, Junsong Yuan, [3D Hand Pose Estimation using synthetic data and weakly labeled RGB images](#), IEEE Trans. On Pattern Analysis and Machine Intelligence (PAMI), accepted for publication 27 April, 2020 (IF: 17.730)
2. M. Ramanathan, W.-Y. Yau, N. Magnenat Thalmann and E. K. Teoh, [Mutually reinforcing motion-pose framework for pose invariant action recognition](#), International Journal of Biometrics, DOI: 10.1504/IJBM.2019.099014, Vol. 11, No. 2, March 21, 2019
1. M. Ramanathan, J. Kochanowicz and Nadia Magnenat Thalmann, [Combining Pose-Invariant Kinematic Features and Object Context Features for RGB-D Action Recognition](#), International Journal of Machine Learning & Computing, Singapore (online journal)
3. Y. Tahir, Z. Yang, D. Chakraborty, N. Thalmann, D. Thalmann, Y. Maniam, Nur Amirah binte Abdul Rashid, B.-L. Tan, J. L. C. Keong and J. Dauwels, [Non-verbal speech cues as objective measures for negative symptoms in patients with schizophrenia](#), PLOS ONE, DOI: 10.1371/journal.pone.0214314, April 09, 2019 (IF:2.776)
4. Y. Cai, Y. Zhang, X. Wu, Y. Chen, B. Tan, B. Yang, T. Liu, J. Zheng and N. Thalmann, [Madam Snake White: A Case Study on Virtual Reality Continuum Applications for Singaporean Culture and Heritage at Haw Par Villa](#), Presence: Teleoperators and Virtual Environments, Vol. 26, Issue 4, pp. 378 – 388, DOI: 10.1162/PRES_a_00303, August 14, 2018 (IF:0.750)
5. N. Jain, A. Wydra, W. Hai, N. Magnenat-Thalmann and D. Thalmann, [Time scaled interactive object driven Multi-party VR](#), The Visual Computer, DOI: 10.1007/s00371-018-1539-1, Vol 34, Issue 6-8, pp. 887 – 897, May 04, 2018 (2nd Best Paper Award of CGI Conference 2018) (IF:1.45)
6. J. Zhang, J. Zheng and N. Magnenat Thalmann, [MCAEM: Mixed-Correlation-Analysis based Episodic Memory for Companion-User Interactions](#), The Visual Computer, DOI: 10.1007/s00371-018-1537-3, Vol. 34, Issue 6 – 8, pp. 1129 – 1141, May 10, 2018 (IF:1.45)
7. T. Tahir, J. Dauwels, D. Thalmann. N. Magnenat Thalmann, [A User Study of a Humanoid Robot as a Social Mediator for Two-Person Conversations](#), International of Social Robotics, 2018 (IF: 1.80)
8. M. Becker, N. Magnenat Thalmann, [Muscle Tissue Labeling of Human Lower Limb in Multi Channel mDixon MR Imaging: Concepts and Applications](#), IEEE/ACM Transactions on Computational Biology and Bioinformatics, Vol.14, No2, pp.290-299, 2017 (IF:2.428)
9. L. Tian, N. Magnenat Thalmann, D. Thalmann and J. Zheng, [The Making of a 3D-Printed, Cable-Driven, Single-Model, Lightweight Humanoid Robotic Hand](#), Frontiers in Robotics and AI, DOI: 10.3389/frobt.2017.00065, pp. 65, December 04, 2017 (IF:3.310)
10. W. Gu, G. Seet and N. Magnenat Thalmann, [Perception-Link Behavior Model: Supporting a Novel Operator Interface for a Customizable Anthropomorphic Telepresence Robot](#), Robotics, Vol. 6, Issue 3, pp. 16, DOI: 10.3390/robotics6030016, July 20, 2017 open access journal
11. S. Stüvel, N. Magnenat-Thalmann, D. Thalmann, F. van der Stappen and A. Egges, [Torso Crowds](#), IEEE Transactions on Visualization and Computer Graphics, (IP:1.4), Vol. 23, Issue. 7, pp. 1823 – 1837, DOI: 10.1109/TVCG.2016.2545670, July 2017 (IF:3.780)

12. J. Hou, L.P. Chau, N. Magnenat Thalmann and Y. He, [Sparse Low-Rank Matrix Approximation for Data Compression](#), IEEE Transactions on Circuits and Systems for Video Technology, (IF: 2.254), Vol. 27, Issue 5, pp. 1043 – 1054, DOI: 10.1109/TCSVT.2015.2513698, May 2017 (IF:2.254)
13. Y. Tisserand, L. Cuel, N. Magnenat Thalmann, [Automatic 3D garment positioning based on surface metric](#), Computer Animation & Virtual Worlds, Wiley, 2017, Vol.28, No3-4 (IF 0.548)
14. H. Xu, S. Guo, J. Yao and N. Magnenat Thalmann, [Approximating Interior Bounded Box of 3D Character Mesh Model based on Its Skeleton and Symmetry](#), International Journal of Intelligent Computing and Cybernetics (IJICC) (IF: 2.254), Vol. 10, Issue 3, pp. 332 – 347, DOI: 10.1108/IJICC-01-2017-0003, March 2017 (IF: 2.254)
15. S. Guo, H. Xu, N. Magnenat Thalmann, J. Yao, [Customization and fabrication of the appearance for humanoid robot](#), The Visual Computer, (IP: 1.09), Vol 33 (1), pp. 63 – 74, 2017 (IF 1.45)
16. J. Ren, X. Jiang, J. Yuan and N. Magnenat Thalmann, [Sound-Event Classification Using Robust Texture Features for Robot Hearing](#), IEEE Transactions on Multimedia (TMM), Vol. PP, Issue 99, pp.1, DOI: 10.1109/TMM.2016.2618218, October 2016 (5.452)
17. H. Zhu, J. Cai, J. Zheng, N. Magnenat Thalmann, [Multiple Human Identification and Cosegmentation: A Human-Oriented CRF Approach With Poselets](#), IEEE Transactions on Multimedia, Vol.18, No8, August 2016, pp1516-1529.(IF:5.452)
18. L. Assassi and N. Magnenat Thalmann, [Assessment of cartilage contact pressure and loading in the hip joint during split posture](#), International journal of computer assisted radiology and surgery (IJCARS) Vol. 11, Issue 5, pp.745 – 756, DOI: 10.1007/s11548-015-1303-1, May 2016 (IF: 2.148)
19. S. Senecal, L. Cuel, A. Aristidou and N. Magnenat Thalmann, [Continuous body emotion recognition system during theater performances](#), Computer Animation and Virtual Worlds, Vol. 27, Issue 3 – 4, pp.311 – 320, DOI: 10.1002/cav.1714, May 2016 ((IF: 0.548))
20. M. Pitikakis, A. Chincisan, N. Magnenat Thalmann, L. Cesario, P. Parascandolo, L. Vosilla and G. Viano, [Automatic measurement and visualization of focal femoral cartilage thickness in stress-based regions of interest using three-dimensional knee models](#), International journal of computer assisted radiology and surgery, Vol. 11, Issue 5, pp.721 – 732, May 2016 (IF:2.148)
21. J. Hou, L.-P. Chau, N. Magnenat Thalmann and Y. He, [Low-latency Compression of Mocap Data using Learned Spatial Decorrelation Transform](#), Computer Aided Geometric Design (CAGD), DOI: 10.1016/j.cagd.2016.02.002, February 2016 ((IF: 1.639),
22. Z.P. Bian, J. Hou, L.-P. Chau, and N. Magnenat Thalmann, [Facial Position and Expression Based Human Computer Interface for Persons with Tetraplegia](#), IEEE Transactions on Information Technology in Biomedicine (IEEE T-ITB) ,Vol.20, No3, pp.915-924, 2015) (IF: 2.072)
23. Z. Zhang, A. Beck and N. Magnenat Thalmann, [Human-Like Behavior Generation Based on Head-Arms Model for Tracking External Targets and Body Parts](#), IEEE Transactions on Cybernetics (IF: 3.469), Vol. 45, Issue 8, August 2015 (IF:3.469)
24. A. Chincisan, K. Tecante, M. Becker, N. Magnenat Thalmann, C. Hurschler, H.F. Choi, [A Computational Approach to Calculate Personalized Pennation Angle based on MRI: Effect on Motion Analysis](#), Journal of Computer Assisted Radiology and Surgery, DOI: 10.1007/s11548-015-1251-9, July 2015 (IF: 1.66),
25. M. Becker, N. Nijdam and N. Magnenat Thalmann, [Coupling Strategies for Multi-resolution Deformable Meshes: Expanding the Pyramid Approach beyond its One-way Nature](#), Journal of Computer Assisted Radiology and Surgery, DOI: 10.1007/s11548-015-1241-y, June 2015 (IF: 1.66),

26. J. Zhang, J. Zheng and N. Magnenat Thalmann, [PCMD: Personality-characterized Mood Dynamics Model Toward Personalized Virtual Characters](#), Computer Animation and Virtual Worlds, Vol. 26, Issue 3 – 4, pp. 237 – 245, April 29, 2015 (IF:0.548)
27. W. Zhang, J. Zheng, N. Magnenat Thalmann, [Real-time Subspace Integration for Example-based Elastic Material](#), Computer Graphics Forum, Vol. 34, No. 2, 2015 (IF:2.84)
28. J. Hou, L.-P. Chau, N. Magnenat Thalmann and Y. He, [Human Motion Capture Data Tailored Transform Coding](#), IEEE Transactions on Visualization and Computer Graphics (IEEE T-VCG) (IF: 1.919), 25(1): 51 – 62, February 2015 (IF: 1.919),
29. X. Shao, Z. Zhou, N. Magnenat Thalmann, W. Wu, [Stable and Fast Fluid–solid Coupling for Incompressible SPH](#), Computer Graphics Forum, Vol. 34, No. 1, pp. 191 – 204, February 2015 (IF: 1.595)
30. J. Hou, L.-P. Chau, N. Magnenat Thalmann, Y. He, [Compressing 3-D Human Motions via Keyframe-Based Geometry Videos](#), IEEE Transactions on Circuits and Systems for Video Technology (TCSVT) Vol 25, Issue 1, pp. 51 – 62, DOI:10.1109/TCSVT.2014.2329376, January 2015 (IF: 2.259)
31. H. Fang, J. Zhang, M. Sensoy and N. Magnenat Thalmann, [Reputation Mechanism for E-commerce in Virtual Reality Environments](#), Electronic Commerce Research and Applications, Vol. 13, Issue 6, pp. 409 – 422, December 2014 (IF: 1.304),
32. Y. Zhang, J. Zheng, N. Magnenat Thalmann, [Example-guided Anthropometric Human Body Modeling](#), The Visual Computer, DOI: 10.1007/s00371-014-1043-1, October 2014 (IF: 1.415),
33. Z. Zhang, A. Beck, and N. Magnenat Thalmann, [Human-like Behavior Generation based on Head-arms Model for Robot Tracking External Targets and Body Parts](#), IEEE Transaction on Cybernetics, Vol. 10, No. 2, September 2014 (IF: 3.236)
34. S. Stüvel, N. Magnenat Thalmann, D. Thalmann, A. Egges and F. van der Stappen, [Hierarchical Structures for Collision Checking between Virtual Characters](#), Computer Animation and Virtual Worlds Journal, Vol. 25, Issue 3 – 4, pp. 331 – 340, August 2014 (IF 0.548)
35. Z. Yumak, J. Ren, N. Magnenat Thalmann, and J. Yuan, [Modelling Multi-party Interactions among Virtual Characters, Robots and Humans](#), MIT Presence: Tele-operators and Virtual Environments (Presence), Vol. 23, No. 2, August 2014 (IF: 0.912)
36. H. F. Choi, A. Chincisan, M. Becker and N. Magnenat Thalmann, [Multimodal Composition of the Digital Patient: a Strategy for the Knee Articulation](#), The Visual Computer, Vol. 30, No. 6 – 8, pp. 739 – 749, June 2014 (1.479)
37. M. Elgendi, F. Picon, N. Magnenat Thalmann and D. Abbott, [Arm Movement Speed Assessment via a Kinect Camera: A Preliminary Study in Healthy Subjects](#), BioMedical Engineering OnLine 2014, DOI:10.1186/1475-925X-13-88, June 27, 2014 (IF: 1.746)
38. Z.P. Bian, J. Hou, L.P. Chau, and N. Magnenat Thalmann, [Fall Detection Based on Body Part Tracking Using a Depth Camera](#), IEEE Journal of Biomedical and Health Informatics , April 2014, (IF: 2.072)
39. J. Hou, L.-P. Chau, N. Magnenat Thalmann and Y. He, [Scalable and Compact Representation for Motion Capture Data Using Tensor Decomposition](#), IEEE Signal Processing Letters, Vol. 21, No. 3, March 2014 (IF: 1.639),
40. J. Hou, L.-P. Chau, M. Zhang, N. Magnenat Thalmann and Y. He, [A Highly Efficient Compression Framework for Time-Varying 3D Facial Expressions](#), IEEE Transactions on Circuits and Systems for Video Technology (TCSVT) February 2014 (IF: 2.259)

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42. H. Zhu, J. Zheng, J. Cai, and N. Magnenat Thalmann, [Object-level Image Segmentation Using Low Level Cues](#), IEEE Transactions on Image Processing (TIP) , October 2013, (IF: 3.111)
43. M. B. Moussa, N. Magnenat Thalmann, [Towards Socially Responsible Agents: Integrating, Attachment and Learning in Emotional Decision-making](#), Computer Animation and Virtual Worlds Vol. 24, Issue 3-4, pp. 327 – 334, August 2013 (IF 0.548)
44. F.C. Kolo, C. Charbonnier, C.W. Pfirrmann, S.R. Duc, A. Lubbeke, V. B Duthon, N. Magnenat Thalmann, P. Hoffmeyer, J. Menetrey, C.D. Becker, [Extreme Hip Motion in Professional Ballet Dancers: Dynamic and Morphological Evaluation Based on Magnetic Resonance Imaging](#), Skeletal radiology, Vol. 42, Issue 5, pp. 689 – 698, May 2013, (IF: 1.743)
45. Y.B. Wang, R. Dubey, N. Magnenat Thalmann and D. Thalmann, [An Immersive Multi-agent System for Interactive Applications](#), The Visual Computer (IF: 1.475), Vol. 29, Issue 5, pp. 323 – 332, May 2013
46. G.D. Liu, S. Choudhary, J.Z. Zhang and N. Magnenat Thalmann, [Let's Keep in Touch Online: A Facebook Aware Virtual Human Interface](#), The Visual Computer May 2013 (IF 1.45)
47. J. Hou, L.P. Chau, Y. He, M. Zhang and N. Magnenat Thalmann, [Rate-distortion Model Based Bit Allocation for 3-D Facial Compression Using Geometry Video](#), IEEE Transactions on Circuits and Systems for Video Technology, No. 99, February 25, 2013 (IF: 2.259)
48. Z. Yasseen, A. H. Nasri, W. Boukaram, P. Volino, N. Magnenat Thalmann, [Sketch-based Garment Design with Quad Meshes](#), Computer-Aided Design, Vol. 45, Issue 2, pp. 562 – 567, February 2013, (IF: 1.515)
49. V.B. Duthon, C. Charbonnier, F.C. Kolo, N. Magnenat Thalmann, C.D. Becker, C. Bouvet, E. Coppens, P. Hoffmeyer and J. Menetrey, [Correlation of Clinical and Magnetic Resonance Imaging Findings in Hips of Elite Female Ballet Dancers](#), Arthroscopy - The Journal of Arthroscopic and Related Surgery, DOI:10.1016, 18 January 2013, (IF: 3.191)
50. L. Claes, S. Jiménez-Murcia, J.J. Santamaría, M.B. Moussa, I. Sánchez, L. Forcano, N. Magnenat Thalmann, D. Konstantas, M. L. Overby, J. Nielsen, R.G.A. Bults, R. Granero, T. Lam, E. Kalapanidas, J. Treasure and F. Fernández-Aranda, [The Facial and Subjective Emotional Reaction in Response to a Video Game Designed to Train Emotional Regulation \(Playmancer\)](#), European Eating Disorders Review , DOI: 10.1002/erv.2212, Vol. 20, Issue 6, pp. 484 – 489, November 2012 (IF: 2.252)
51. Brian F. Allen, N. Magnenat Thalmann and D. Thalmann, [Politeness Improves Interactivity in Dense Crowds](#), Computer Animation and Virtual Worlds, Published Online, June 29, 2012 (IF: 0.548)
52. Z. Kasap and N. Magnenat Thalmann, [Building Long-term Relationships with Virtual and Robotic Characters: The Role of Remembering](#), The Visual Computer ,Vol. 28, No. 1, pp. 87 – 97, January 2012 (IF: 1.475)
53. Y. J. Chen, N. Magnenat Thalmann and Brian F. Allen, [Physical Simulation of Wet Clothing for Virtual Human](#), The Visual Computer, Vol. 28, pp. 765 – 774, April 2012 (IF: 1.475)
54. P. Chiang, J.M. Zheng, K.H. Mak and N. Magnenat Thalmann, and Y.Y. Cai, [Progressive Surface Reconstruction for Heart Mapping Procedure](#), Computer-aided Design, Elsevier, Vol. 44, Issue 4, pp. 289 – 299, April 2012 (IF: 1.515)

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56. M. Kasap and N. Magnenat Thalmann, [Skeleton-Aware Size Variations in Digital Mannequins](#). The Visual Computer Springer, Vol.27, No.4, pp.263 – 274, April 2011 (IF: 1.450)
57. C. Charbonnier, F.C. Kolo, V.B. Duthon, N. Magnenat Thalmann, C.D. Becker, P. Hoffmeyer, and J. Menetrey, [Assessment of Congruence and Impingement of the Hip Joint in Professional Ballet Dancers- A Motion Capture Study](#), American Journal of Sports Medicine, Vol. 39, pp.557 – 566, March 2011(IF: 4.699)
58. J. Schmid, J. Kim and N. Magnenat Thalmann, [Robust Statistical Shape Models for MRI Bone Segmentation in Presence of Small Field of View](#), Medical Image Analysis, Elsevier, Vol. 15, pp. 155 – 168, February 2011 (IF: 3.681)
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A2. Publications from 2010 to 1990 (University of Geneva, Switzerland)

62. C. Charbonnier, N. Magnenat Thalmann, C.D. Becker, P. Hoffmeyer and J. Menetrey, [An Integrated Platform for Hip Joint Osteoarthritis Analysis: Design, Implementation and Results](#), International Journal of Computer Assisted Radiology and Surgery, Springer-Verlag, Vol. 5, No. 4, pp. 351 – 358, July 2010 (IF: 1.659)
63. S. Han, N. Nijdam, J. Schmid, J. Kim, and N. Magnenat Thalmann, [Collaborative Telemedicine for Interactive Multiuser Segmentation of Vol.tric Medical Images](#), The Visual Computer, Springer, Vol. 26, No. 6, pp. 639 – 648, June 2010 (IF:1.415)
64. A.E. Foni, G. Papagiannakis and N. Magnenat Thalmann, [A Taxonomy of Visualization Strategies for Cultural Heritage Applications](#), Journal on Computing and Cultural Heritage, Vol. 3 Issue 1, Article No. 1, June 2010 (IF: 1.111)
65. J. Schmid, J. Kim and N. Magnenat Thalmann, [Extreme Leg Motion Analysis of Professional Ballet Dancers via MRI Segmentation of Multiple Leg Postures](#), International Journal of Computer Assisted Radiology and Surgery (IF: 1.659), Springer, Vol. 6, No.1, pp.45 – 57, May 2010
66. B. Gilles and N. Magnenat Thalmann, [Musculoskeletal MRI Segmentation Using Multi-resolution Simplex Meshes with Medial Representations](#), Medical Image Analysis (IF: 3.681), Elsevier, Vol.14, pp. 291 – 302, June 2010
67. U. Bonanni, P. Knoch and N. Magnenat Thalmann, [Interaction Metaphors for Modeling Hair using Haptic Interfaces](#), International Journal of CAD/CAM (IF: 1.667), Society of CAD/CAM Engineers, Vol. 9, No.1, pp. 93 – 102, 2009

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74. L. Assassi, C. Charbonnier, J. Schmid, P. Volino and N. Magnenat Thalmann, [From MRI to Anatomical Simulation of the Hip Joint](#), Computer Animation and Virtual Worlds Journal (IF: 0.422), Special Issue on Physiological Human, John Wiley and Sons, Vol. 20, 1, pp. 53 – 66, January 2009
75. U. Bonanni, M. Montagnol and N. Magnenat Thalmann, [Multilayered Visuo-haptic Hair Simulation](#), The Visual Computer (IF: 1.073), Springer Berlin / Heidelberg, vol. 24, no. 10, pp. 901-910, October 2008
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- [Illumination in Ancient Roman Sites](#), The International Journal of Virtual Reality (IF: 0.729), IPI Press, vol. 6, no. 1, pp. 11-24, June 2007
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88. M. Gutiérrez, D. Thalmann, F. Vexo, L. Moccozet, N. Magnenat Thalmann, M. Mortara and M. Spagnuolo, [An Ontology of Virtual Humans: Incorporating Semantics into Human Shapes](#), The Visual Computer, vol. 23, no. 3, pp. 207-218, February 2007 (IF:1.415)
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B. Full Refereed Papers in Conference Proceedings

B1. Publications from 2020 to 2011 (NTU, Singapore and University of Geneva, Switzerland)

1. Tian, N. Thalmann, D. Thalmann and J. Zheng, "[Design of a Highly Biomimetic and Fully-Actuated Robotic Finger](#)", The 2019 IEEE Symposium Series on Computational Intelligence (IEEE SSCI 2019), Xiamen, China, December 06 – 09, 2019
2. Y. Cai, L. Ge, J. Liu, J. Cai, T.-J. Cham, J. Yuan and N. Magnenat Thalmann, "[Exploiting Spatial-temporal Relationships for 3D Pose Estimation via Graph Convolutional Networks](#)", International Conference on Computer Vision, (ICCV'19), Seoul, South Korea, October 27 – November 02, 2019
3. H. Ding, X. Jiang, A. Liu, N. Thalmann and G. Wang, "[Boundary-Aware Feature Propagation for Scene Segmentation](#)", International Conference on Computer Vision, (ICCV'19), Seoul, South Korea, October 27 – November 02, 2019
4. L. Tian, J. Liu, N. Magnenat Thalmann, D. Thalmann and J. Zheng, "[Design of a Flexible Articulated Robotic Hand for a Humanoid Robot](#)", 2019 IEEE-RAS International Conference on Humanoid Robots (Humanoids), Toronto, Canada, October 15 – 17, 2019
5. A. Vishwanath, A. Singh, J. Dauwels, Y. H. V. Chua and N. Magnenat Thalmann, "[Humanoid co-workers: How is it like to work with a robot?](#)", 28th IEEE International Conference on Robot and Human Interactive Communication (Ro-Man 2019), New Delhi, India, October 14 – 18, 2019
6. N. Mishra, M. Ramanathan, R. Satapathy, E. Cambria and N. Magnenat Thalmann, "[Can a Humanoid Robot be part of Organizational Work Force? A User Study leveraging on Sentiment Analysis](#)", 28th IEEE International Conference on Robot and Human Interactive Communication (Ro-Man 2019), New Delhi, India, October 14 – 18, 2019
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12. L. Huang, Y. Zhang, J. Zheng, P. Cai, S. Dutta, Y. Yue, N. Thalmann and Y. Cai, “[Point Cloud Based Path Planning for Tower Crane Lifting](#)”, Proceedings of the 35th Computer Graphics International (CGI 2018), ACM, Bintan, Indonesia, June 11 – 14, 2018
13. L. Tian, N. Magnenat Thalmann, D. Thalmann, J. Zheng, “[A methodology to model and simulate customized human robotic realistic hand](#)”, Proceedings of the 35th Computer Graphics International (CGI 2018), ACM, Nirwana Resort, Bintan, Indonesia, June 11 – 14, 2018
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16. M. Ramanathan, W.-Y. Yau, E. K. Teoh and N. Magnenat Thalmann, “[Pose-invariant kinematic features for action recognition](#)”, Proceedings of the 9th Asia-Pacific Signal and Information Processing Association Annual Summit and Conference (APSIPA-ASC), IEEE, pg. 292 – 297, Aloft Kuala Lumpur Sentral, Kuala Lumpur, Malaysia, December 12 – 15, 2017
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23. Y. Tahir, D. Chakraborty, J. Dauwels, N. Magnenat Thalmann, D. Thalmann and J. Lee, [Non-verbal Speech Analysis of Interviews with Schizophrenic Patients](#), 41st IEEE International Conference on Acoustics, Speech and Signal Processing (ICASSP 2016), Shanghai, China, March 20 – 25, 2016
24. H. Liang, J. Yuan, D. Thalmann and N. Magnenat Thalmann, [AR in Hand: Egocentric Palm Pose Tracking and Gesture Recognition for Augmented Reality Applications](#), ACM Multimedia Conference 2015 (ACMMM 2015), Brisbane, Australia, October 26 – 30, 2015
25. Y. Tisserand and N. Magnenat Thalmann, **Image-based 3D Avatar for Virtual Try-on Applications**, Photogrammetric Week 2015, University of Stuttgart, Germany, September 7 – 11, 2015
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29. Z. P. Bian, L. P. Chau, and N. Magnenat Thalmann, [Human Computer Interface for Quadriplegic People based on Face Position/Gesture Detection](#), Proceedings of ACM Multimedia 2014, Orlando, USA, November 03 – 07, 2014
30. M. Becker and N. Magnenat Thalmann, [Muscle Tissue Labeling of Human Lower Extremities in Multi-Channel mDixon MR Imaging: Concepts and Applications](#), 2014 IEEE International Conference on Bioinformatics and Biomedicine (BIBM 2014), Belfast, UK, November 02 – 05, 2014 (Best Overall Paper Award)
31. H. Zhu, J. Lu, J. Cai, J. Zheng, and N. Magnenat Thalmann, [Poselet-based Multiple Human Identification and Cosegmentation](#), IEEE International Conference on Image Processing (ICIP 2014), Paris, France, October 27 – 30, 2014
32. J. Hou, L.P. Chau, Y. He and N. Magnenat Thalmann, [Low-Rank Based Compact Representation of Motion Capture Data](#), IEEE International Conference on Image Processing (ICIP 2014), Paris, France, October 27 – 30, 2014
33. N. Magnenat Thalmann, Z. Yumak and A. Beck, [Autonomous Virtual Humans and Social Robots in Telepresence](#), 2014 16th IEEE International Workshop on Multimedia Signal Processing (MMSP), Jakarta, Indonesia, pp. 1 – 6, September 22 – 24, 2014
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 39. H. Zhu, J. Cai, J. Zheng, J. Wu, N. Magnenat Thalmann, [Salient object cutout using Google Images](#), 2013 IEEE International Symposium on Circuits and Systems (IEEE ISCAS 2013), Beijing, China, May 19 – 23, 2013
 40. H. Fang, J. Zhang and N. Magnenat Thalmann, **Subjectivity Grouping: Learning from Users' Rating Behavior**, Proceedings of the 13th International Conference on Autonomous Agents and Multiagent Systems (AAMAS 2014), Paris, France, May 05 – 09, 2014
 41. H. Zhu, J. Lu, J. Cai, J. Zheng and N. Magnenat Thalmann, [Multiple Foreground Recognition and Cosegmentation: An Object-Oriented CRF Model with Robust Higher-Order Potentials](#), Proceedings of 2014 IEEE Winter Conference on Applications of Computer Vision (WACV 2014), Steamboat Springs, Co, March 24 – 26, 2014
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 44. U. Rasheed, Y. Tahir, S. Dauwels, J. Dauwels, D. Thalmann and N. Magnenat Thalmann, [Real-Time Comprehensive Sociometrics for Two-Person Dialogs](#), 4th International Workshop on Human Behavior Understanding (HBU2013), Barcelona, Spain, October 22, 2013
 45. N. Nijdam, Y. Tisserand, N. Magnenat Thalmann, [Refurbish a Single User 3D Application into a Multi-user distributed Service: A Case Study](#), VRST '13 Proceedings of the 19th ACM Symposium on Virtual Reality Software and Technology, ACM New York, pp. 193 – 200, October 2013
 46. Z. Yumak and N. Magnenat Thalmann, **Multi-party Interaction with a Virtual Character and Human-like Robot**, The 19th ACM Symposium on Virtual Reality Software and Technology (VRST2013), Singapore, October 06 – 08, 2013
 47. Z. Yuzhe, Z. Jianmin and N. Magnenat Thalmann, **Virtual Try-on with Kinect**, The 19th ACM Symposium on Virtual Reality Software and Technology (VRST2013), Singapore, October 06 – 08, 2013

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50. Q. Yuan, G. Cong, Z. Ma, A. Sun and N. Magnenat Thalmann, [Who, Where, When and What: Discover Spatio-temporal Topics for Twitter Users](#), Proceedings of the 19th ACM SIGKDD International Conference on Knowledge Discovery and Data Mining (KDD 2013), pp 605-613, Chicago, USA, August 11 – 14, 2013
51. Q. Yuan, G. Cong, Z. Ma, A. Sun and N. Magnenat Thalmann, [Time-aware point-of-interest recommendation](#), Proceedings of the 36th international ACM SIGIR conference on Research and development in information retrieval, July 2013 pp.363–372
52. K. C. Apostolakis, D. S. Alexiadis, P. Daras, D. Monaghan, N. E. O'Connor, B. Prestele, P. Eisert, G. Richard, Q. Zhang, E. Izquierdo, M. B. Moussa and N. Magnenat Thalmann, **Blending Real With Virtual in 3D Life**, 14th International Workshop on Image and Audio Analysis for Multimedia Interactive services (WIAMIS2013), July 03 – 05, 2013
53. W. Gu, G. Seet and N. Magnenat Thalmann, **Improved Human Interaction in Telepresence Robot using Real-time Face Segmentation**, 32nd Chinese Control Conference (CCC2013), Xi'an, China, July 26 – 28, 2013
54. H. Zhu, J. Cai, J. Zheng, J. Wu and N. Magnenat Thalmann, **Salient Object Cutout Using Google Images**, IEEE International Symposium on Circuits and Systems (ISCAS 2013), Beijing, China, May 19 – 23, 2013
55. H. Fang, J. Zhang and N. Magnenat Thalmann, **A Trust Model Stemmed from the Diffusion Theory for Opinion Evaluation**, Proceedings of 12th International Joint Conference on Autonomous Agents and Multiagent Systems (AAMAS 2013), Saint Paul, Minnesota, USA, May 6 – 10, 2013
56. S. Dalibard, D. Thalmann, N. Magnenat Thalmann, [Interactive Design of Expressive Locomotion Controllers for Humanoid Robots](#), Proceedings of IEEE RO-MAN 2012, Paris, France, September 09 – 13, 2012
57. Z. P. Bian, L. P. Chau and N. Magnenat Thalmann, **Fall Detection Based on Skeleton Extraction**, 11th International Conference on Virtual Reality Continuum and Its Applications in Industry (ACM SIGGRAPH VRCAI2012), Singapore, December 02 – 04, 2012
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60. Q. Yuan, G. Cong, A. Sun, C.Y. Lin and N. Magnenat Thalmann, **Category Hierarchy Maintenance: A Data-Driven Approach**, ACM SIGIR Conference (SIGIR), Portland, Oregon, USA, August 12 – 16, 2012
61. M. Ben Moussa, N. Magnenat Thalmann, D. Konstantas, J. J. Santamaría, F. Fernández–Aranda and S. Jiménez-Murcia, **Facial Affect Recognition for Cognitive-Behavioural Therapy**, Proceedings of the Sixth International Symposium on e-Health Services and Technologies, SciTePress, July 2012

62. H. Fang, J. Zhang, M. Sensoy and N. Magnenat Thalmann, **A Generalized Stereotypical Trust Model**, the 11th IEEE International Conference on Trust, Security and Privacy in Computing and Communications (IEEE TrustCom), Liverpool, UK, June 25 – 27, 2012
63. L. Assassi and N. Magnenat Thalmann, **Biomechanical Analysis of the Human Hip Joint During Extreme Movements**, Computer Assisted Radiology and Surgery (CARS2012), Pisa, Italy, June 2012
64. H. Fang, J. Zhang, M. Sensoy and N. Magnenat Thalmann, **SRAC: Subjectivity Alignment for Reputation Computation**, the 11th International Joint Conference on Autonomous Agents and Multiagent Systems (AAMAS), Valencia, Spain, June 04 – 08, 2012
65. H. Fang, J. Zhang, M. Sensoy and N. Magnenat Thalmann, **A Subjectivity Alignment Approach for Effective Reputation Computation**, 15th International Workshop on Trust in Agent Societies (TRUST12), Spain, Valencia, June 05, 2012
66. M. Elgendi, F. Picon and N. Magnenat Thalmann, **Real-Time Speed Detection of Hand Gesture using Kinect, Workshop on Autonomous Social Robots and Virtual Humans**, the 25th Annual Conference on Computer Animation and Social Agents (CASA 2012), Singapore, May 09 – 11, 2012
67. S. Dalibard, N. Magnenat Thalmann and D. Thalmann, **Anthropomorphism of Artificial Agents: A Comparative Survey of Expressive Design and Motion of Virtual Characters and Social Robots**, Workshop on Social Robots and Virtual Humans, the 25th Annual Conference on Computer Animation and Social Agents (CASA 2012), Singapore, May 09, 2012
68. J. Zhang, N. Magnenat Thalmann and J. Zheng, **Modeling Emotions and Moods in an Affective System for Virtual Human and Social Robots**, Proceedings of the 25th Annual Conference on Computer Animation and Social Agents (CASA 2012), Singapore, May 09 – 11, 2012
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70. L. Assassi, M. Becker and N. Magnenat Thalmann, **Dynamic Skin Deformation based on Biomechanical Modeling**, Proceedings of the 25th Annual Conference on Computer Animation and Social Agents (CASA 2012), Singapore, May 09 – 11, 2012
71. K. Zawieska, M. B. Moussa, B. R. Duffy and N. Magnenat Thalmann, **The Role of Imagination in Human-Robot Interaction**, Proceedings of the 25th Annual Conference on Computer Animation and Social Agents (CASA 2012), Singapore, May 09 – 11, 2012
72. K. H. N. Chia, Y. Cai, K. N. N. Kee, N. Magnenat Thalmann, D. Lu, J. Zheng and D. Thalmann, **Autistic Learning Activity System Design using Virtual Pink Dolphins**, Proceedings of the 25th Annual Conference on Computer Animation and Social Agents (CASA 2012), Singapore, May 09 – 11, 2012
73. Y. Zhang, J. Zheng, N. Magnenat Thalmann and Y. Cai, **Virtual Try-on with Kinect based on Human Body Adaptation and Cloth Simulation**, Proceedings of the 25th Annual Conference on Computer Animation and Social Agents (CASA 2012), Singapore, May 09 – 11, 2012
74. M. Elgendi, F. Picon and N. Magnenat Thalmann, **Towards Interactive Virtual Human: Classification of Hand Gesture Speed using Kinect**, Proceedings of the 25th Annual Conference on Computer Animation and Social Agents (CASA 2012), Singapore, May 09 – 11, 2012
75. B. Zhenpeng, C. Lap-Pui and N. Magnenat Thalmann, **A Depth Video Approach for Fall Detection Based on Human Joins Height and Falling Velocity**, Proceedings of the 25th Annual Conference on Computer Animation and Social Agents (CASA 2012), Singapore, May 09 – 11, 2012

76. L. Assassi and N. Magnenat Thalmann, **Biomechanical Modeling of the Human Articulation for Osteoarthritis Analysis**, Computer Methods in Biomechanics and Biomedical Engineering (CMBBE2012), Berlin, Germany, pp. 573 – 578, April 2012
77. B. Kevelham and N. Magnenat Thalmann, **Virtual Try On: An Application in Need of GPU Optimization**, Proceedings of the ATIP/A*CRC Workshop on Accelerator Technologies for High-Performance Computing, A*STAR Computational Resource Center, pp. 10:1 – 10:9, 2012
78. Q. Yuan, G. Cong and N. Magnenat Thalmann, **Enhancing Naive Bayes with Various Smoothing Methods for Short Text Classification**, Proceedings of WWW 2012, ACM World Wide web Conference, 2012
79. K. Zawieska, B. Kevelham, M. Ben Moussa and N. Magnenat Thalmann, **The Illusion of Intelligence**, 26th conference on Artificial Intelligence (AAAI 2012), Toronto, Canada, Video Competition, 2012, Best Video Award
80. H. Fang, J. Zhang, M. Sensoy and N. Magnenat Thalmann, **A Reputation Mechanism for Virtual Reality - Five-Sense Oriented Feedback Provision and Subjectivity Alignment**, the 10th IEEE International Conference on Trust, Security and Privacy in Computing and Communications (IEEE TrustCom), Changsha, China, November 16 – 18, 2011
81. L. Assassi, P. Volino, and N. Magnenat Thalmann, **Biomechanical Analysis of the Hip Joint in Extreme Postures**, Meditech Meeting on Advances and new developments in Osteoarthritis/Degenerative diseases, Anglia Ruskin, University, Chelmsford, UK, June 2011
82. C. Charbonnier, V. Duthon, F. Kolo, S. Duc, C. Pfirmann, N. Magnenat Thalmann, C. Becker, P. Hoffmeyer and J. Menetrey, **Correlation of Clinical and MRI Findings in Professional Dancers' Hip: A New Femoro-acetabular Impingement?**, 8th Biennial ISAKOS Congress, Rio De Janeiro, Brazil, May 2011
83. M. Kasap, S. Chague and N. Magnenat Thalmann, **Virtual Face Implant for Visual Character Variations**, WIAMIS 2011 - 12th International Workshop on Image Analysis for Multimedia Interactive Services, Delft, the Netherlands, April 2011
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87. H. Fang, J. Zhang, M. Sensoy and N. Magnenat Thalmann, **Design of a Reputation Mechanism for Virtual Reality: A Case for E-Commerce**, International Joint Conference on Autonomous Agents and Multiagent Systems (AAMAS) Workshop on Trust in Agent Societies, pp. 53 – 67, 2011
- B2. Publications from 2010 to 1990 (University of Geneva, Switzerland)**
88. M.B. Moussa, Z. Kasap, N. Magnenat Thalmann, K. Chandramouli, S. N. H. Mirza, Q. Zhang, E. Izquierdo, I. Biperis, P. Daras, **Towards an Expressive Virtual Tutor: An Implementation of a Virtual Tutor Based**

- on an Empirical Study of Non-verbal Behaviour**, Proceedings of the 2010 ACM workshop on Surreal media and virtual cloning, pp. 39 – 44, ACM, October 29, 2010
89. N. Magnenat Thalmann, J. Schmid, L. Assassi and P. Volino, [A Comprehensive Methodology to Visualize Articulations for the Physiological Human](#), Cyberworlds, IEEE Computer Society, October 2010
90. S. Han, N.A. Nijdam and N. Magnenat Thalmann, **An Application Framework for Seamless Synchronous Collaboration Support in Ubiquitous Computing Environments**, UCMEDIA, September 2010
91. N. Magnenat Thalmann and J. Schmid, **3D Anatomical Functional Models for the Human Musculoskeletal System**, Virtual Physiological Human (VPH) 2010, September 2010
92. I. Ciuciu, H. Kang, R. Meersman, J. Schmid, N. Magnenat Thalmann, J.A. Iglesias Guitian, and E. Gobbetti, **Collaborative Semantic Content Management: an ongoing Case Study for Imaging Applications**, 11th European Conference on Knowledge Management (ECKM 2010), September 2010
93. J. Schmid, J. Kim and N. Magnenat Thalmann, [Coupled Registration-Segmentation: Application to Femur Analysis with Intra-Subject Multiple Levels of Detail MRI Data](#), MICCAI, Springer, LNCS, Vol. 6362, pp. 562 – 569, September 2010
94. P. Volino, N. Magnenat Thalmann and F. Faure, **A Simple Approach to Non Linear Tensile Stiffness for Accurate Cloth Simulation**, SIGGRAPH 2010, Los Angeles, August 2010
95. Z. Kasap and N. Magnenat Thalmann, **Towards Episodic Memory Based Long-term Affective Interaction with a Human-like Robot**, IEEE International Symposium on Robot and Human Interactive Communication (RO-MAN 2010), 2010
96. T. Kostoulas, O. Kocsis, T. Ganchev, F. Fernandez-Aranda, J.S. Lorenzo, S. Jimenez-Murcia, M.B. Moussa, N. Magnenat Thalmann and N. Fakotakis, **The PlayMancer Database: A Multimodal Affect Database in Support of Research and Development Activities in Serious Game Environment**, 7th International Conference on Language Resources and Evaluation, LREC, May 2010
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