

# DR. SEHAT ULLAH

Associate Professor Department of CS & IT · Cell: 0348-8444100

Email: [sehatullah@hotmail.com](mailto:sehatullah@hotmail.com)

## Summary:

S.No.	Title	Description
1	Academic	PhD (France), MS (France), MSc (Pak)
2	Teaching/Research Experience	19Y Plus
3	Administrative Experience	10Years Plus
4	Research Projects/Grants	01 Completed Worth 7.1Millions PKR
5	Research Publications (100)	HEC Recognized Journals 63, Conferences 23, Book Chapters 05, others 09, Total =100 Impact Factor: 102.891 h-Index: 17, i10-Index : 31, Citations: 1166,
6	Students' Supervision	PhD (07 Completed, 02 In Progress) MPhil.(15 Completed, 05 In Progress)
7	Member of Statutory bodies	Yes
8	Products Developed (02)	NVIP available : <a href="http://nvmp.uom.edu.pk/">http://nvmp.uom.edu.pk/</a> HBIVPT available on Play Store

## Academics

Degree	University/Board	Country	Year of Passing
PhD	University of Evry	France	2011
MS	University of Evry	France	2007
MSc	University of Peshawar	Pakistan	2001
BSc	University of Peshawar	Pakistan	1998
HSSC	BISE Swat	Pakistan	1996
SSC	BISE Swat	Pakistan	1994

## Teaching/Research Experience:

Organization	Designation	From	To
UOM	Associate Professor	Feb 12, 2018	Date
UOM	Assistant Professeor	June 30, 2011	Feb 11, 2018
UOM	Lecturer	Feb 15, 2011	June 29, 2011
UOM	Lecturer on Study Leave	June 26, 2006	Feb 14, 2011
UOM	Lecturer	Aug 11, 2003	June 25, 2006
Mardan Institute of IT	Lecturer	May 1, 2002	Aug 30, 2002
ANSI College Mardan	Lecturer	Oct 1, 2001	April 4, 2002

**Current:** Associate Professor, Director IT, Focal Person Prime Minister Laptop Scheme, Member GSC, BoS and ASRB

# DR. SEHAT ULLAH

Associate Professor Department of CS & IT · Cell: 0348-8444100

Email: [sehatullah@hotmail.com](mailto:sehatullah@hotmail.com)

---

## Research Publications:

### Journals:

#### Year 2023

- [1] Numan Ali, **Sehat Ullah**, Aftab Alam, Sanaz Raeis Farshid, Sumbal Saba, Jamal Rafique, A Subjective Study on the Effects of Dynamic Virtual Chemistry Laboratory in a Secondary School Education, *Orbital: Electron.J. Chem.* 2023, 15(1), 57-62 (**Y Category**)
- [2] Sangeen Khan; **Sehat Ullah**; Habib Ullah Khan; Inam Ur Rehman, Digital Twins-Based Internet of Robotic Things for Remote Health Monitoring of COVID-19 Patients, *IEEE Internet of Things Journal*, 14 April 2023, DOI: 10.1109/JIOT.2023.3267171 **Impact Factor: 10.238**
- [3] Muhammad Azhar, **Sehat Ullah**, Khalil Ullah, Khaliq Ur Rahman, Ahmad Khan, Sayed M Eldin, and Nivin A. Ghamry "A Real-Time Dynamic and Multi-View Gait-Based Gender Classification using Lower Body Joints" *Electronics* 2023, 12(1), 118; <https://doi.org/10.3390/electronics12010118> **Impact Factor: 2.690**
- [4] Muhammad Azhar, **Sehat Ullah**, Khalil Ullah, Habib Shah, Abdallah Namoun, Khaliq Ur Rahman, A Three-Dimensional Real-Time and Multi-View Gait-Based Automatic Age Detection System Using Machine Learning, *CMC-Computers, Materials & Continua*, Vol.75, No.1, pp. 165-182, 2023, DOI:10.32604/cmc.2023.034605, **Impact Factor: 3.860**
- [5] **Numan Ali**, S. Ullah and M. Raees. The Effect of Task Specific Aids on Students' Performance and Minimization of Cognitive Load in a Virtual Reality Chemistry Laboratory. *Computer Animation and Virtual Worlds*; e2194 (2023) (**IF: 1.1**) <https://onlinelibrary.wiley.com/doi/10.1002/cav.2194>
- [6] **Numan Ali**, and S. Ullah. The Effect of Interactive Tutorials Information and Purpose Built Virtual Chemistry Laboratory on Students' Performance. *Multimedia Tools and Applications*. (2023). (Accepted) (**IF: 2.757**)

#### Year: 2022

- [7] Muhammad Azhar, **Sehat Ullah**, Khalil Ullah, Ikram Syed, and Jaehyuk Choi "A Gait-Based Real-Time Gender Classification System using Whole Body Joints" *Sensors* 2022, 22(23), 9113; <https://doi.org/10.3390/s22239113>. **Impact Factor: 3.847**

# DR. SEHAT ULLAH

Associate Professor Department of CS & IT · Cell: 0348-8444100

Email: [sehatullah@hotmail.com](mailto:sehatullah@hotmail.com)

[8] Numan Ali, **Sehat Ullah**, Muhammad Raees, Interactive cube for effective demonstration of virtual periodic table, *Education and Information Technologies*. Vol. 22(2), 1635-1654 (2022) (IF: 5.5) <https://link.springer.com/article/10.1007/s10639-021-10691-0>

[9] Numan Ali, **Sehat Ullah**, Dawar Khan, Minimization of students' cognitive load in a virtual chemistry laboratory via contents optimization and arrow-textual aids, *Education and Information Technologies* <https://doi.org/10.1007/s10639-022-10936-6>, (2022), **Impact Factor: 2.917**

[10] Numan Ali, **Sehat Ullah**, Dawar Khan Interactive Laboratories for Science Education: A Subjective Study and Systematic Literature Review, *Multimodal Technologies and Interaction*, 2022, 85 6(10), (IF: 2.5 ) <https://www.mdpi.com/2414-4088/6/10/85>

[11] Muhammad Azhar, **Sehat Ullah**, Muhammad Raees, Khaliq Ur Rahman, Inam Ur Rehman, A real-time multi view gait-based automatic gender classification system using kinect sensor, *Multimedia Tools and Applications*, <https://doi.org/10.1007/s11042-022-13704-3> (2022), **Impact Factor: 2.313**

[12] Rehman, I.U., **Ullah, S.** & Khan, D. FPSI-Fingertip pose and state-based natural interaction techniques in virtual environments. *Multimed Tools Appl* (2022). <https://doi.org/10.1007/s11042-022-13824-w> **Impact Factor: 2.313 (2022)**

[13] Inam Ur Rehman, **Sehat Ullah**, Numan Ali, Ihsan Rabbi, Riaz Ullah Khan Gesture-based guidance for navigation in virtual environments, *Journal on Multimodal User Interfaces*, <https://doi.org/10.1007/s12193-022-00395-1> **Impact Factor: 1.6 (2022)**

[14] **Numan Ali**, S. Ullah, D. Khan, H. Rahman and F. Alam. The Effect of Adaptive Aids on Different Levels of Students' Performance in a Virtual Reality Chemistry Laboratory. *Education and Information Technologies* (2022). <https://link.springer.com/article/10.1007/s10639-023-11897-0> (IF: 5.5)

[15] Inam Ur Rehman, **Sehat Ullah** Gestures and marker based low-cost interactive writing board for primary education *Multimedia Tools and Applications* <https://doi.org/10.1007/s11042-021-11366-1>, **Impact Factor: 2.313**

**Year: 2021**

[16] Raees, M., Ullah, S. LPI: learn postures for interactions. *Machine Vision and Applications* 32, 113 (2021). **Impact Factor: 1.6** <https://doi.org/10.1007/s00138-021-01235-0>

[17] M. Raees, S. Ullah, I. Rahman, M. Azhar Thumb Inclination-Based Manipulation and Exploration, a Machine Learning Based Interaction Technique for Virtual environments. *Mehran University Research Journal of Engineering and Technology (X Category ISI Indexed)*,

# DR. SEHAT ULLAH

Associate Professor Department of CS & IT · Cell: 0348-8444100

Email: [sehatullah@hotmail.com](mailto:sehatullah@hotmail.com)

## Year: 2020

[18] Muhammad Raees, **Sehat Ullah**, RUN: rational ubiquitous navigation, a model for automated navigation and searching in virtual environments, *Virtual Reality* <https://doi.org/10.1007/s10055-020-00468-0> (2020) **Impact Factor: 3.634 Q1**

[19] Numan Ali, **Sehat Ullah**, Review to Analyze and Compare Virtual Chemistry Laboratories for Their Use in Education, *Journal of Chemical Education*, <https://pubs.acs.org/doi/10.1021/acs.jchemed.0c00185>, **Sept 2020, Impact Factor: 1.385**

[20] Shah Khalid, **Sehat Ullah**, Numan Ali, Aftab Alam, Nasir Rasheed, Muhammad Fayaz & Masood Ahmad The effect of combined aids on users performance in collaborative virtual environments, *Multimedia Tools and Applications*, <https://doi.org/10.1007/s11042-020-09953-9> November (2020) **Impact Factor: 2.313**

[21] Muhammad Raees, **Sehat Ullah**, RUN: rational ubiquitous navigation, a model for automated navigation and searching in virtual environments, *Virtual Reality* <https://doi.org/10.1007/s10055-020-00468-0> (2020) **Impact Factor: 3.634 Q1**

[22] Numan Ali, **Sehat Ullah**, Review to Analyze and Compare Virtual Chemistry Laboratories for Their Use in Education, *Journal of Chemical Education*, <https://pubs.acs.org/doi/10.1021/acs.jchemed.0c00185>, **Sept 2020, Impact Factor: 1.385**

[23] Shah Khalid, **Sehat Ullah**, Numan Ali, Aftab Alam, Nasir Rasheed, Muhammad Fayaz & Masood Ahmad The effect of combined aids on users performance in collaborative virtual environments, *Multimedia Tools and Applications*, <https://doi.org/10.1007/s11042-020-09953-9> November (2020) **Impact Factor: 2.313**

[24] Inam Ur Rehman, **Sehat Ullah**, Dawar Khan, Shah Khalid, Aftab Alam, Gul Jabeen, Ihsan Rabbi, Haseeb Ur Rahman, Numan Ali, Muhammad Azher, Syed Nabi, Sangeen Khan Fingertip Gestures Recognition Using Leap Motion and Camera for Interaction with Virtual Environment, *Electronics*, [Doi: 10.3390/electronics9121986](https://doi.org/10.3390/electronics9121986) (2020) **Impact Factor: 2.412**

[25] [7] Inam Ur Rehman<sup>1</sup>, Sehat Ullah, Dawar Khan Multi Layered Multi Task Marker Based Interaction in Information Rich Virtual Environments, *International Journal of Interactive Multimedia and Artificial Intelligence* [DOI: 10.9781/ijimai.2020.11.002](https://doi.org/10.9781/ijimai.2020.11.002) (2020) **Impact Factor: 2.561 Q2**

## Year: 2019

[26] Muhammad Raees, **Sehat Ullah** DOP: Discover Objects and Paths, a model for automated navigation and selection in virtual environments, *Turkish Journal of Electrical Engineering and Computer Science*, (2019) 27: 2784 – 2797, **Impact Factor : 0.682 Q4**

[27] Dawar Khan, Inam ur Rehman, **Sehat Ullah**, Waheed Ahmad, Zhanglin Cheng, Gul Jabeen, Hirokazu Kato A Low-Cost Interactive Writing Board for Primary Education using

# DR. SEHAT ULLAH

Associate Professor Department of CS & IT · Cell: 0348-8444100

Email: [sehatullah@hotmail.com](mailto:sehatullah@hotmail.com)

Distinct Augmented Reality Markers, *Sustainability* 2019, 11, 5720; doi:10.3390/su11205720, **Impact Factor 2.576 Q2**

[28] Sehat Ullah, Inam ur Rahman, Sami ur Rahman, **Systematic Augmentation of ARToolKit Markers for Indoor Navigation and Guidance**, *Proceedings of the Pakistan Academy of Sciences: Pakistan Academy of Sciences A. Physical and Computational Sciences* 56 (1): 1–8 (2019) (X)

[29] Dawar Khan, Sehat Ullah and Syed Nabi A Generic Approach toward Indoor Navigation and Pathfinding with Robust Marker Tracking, *Remote Sens.* 2019, 11, 3052; doi:10.3390/rs11243052, **Impact factor of 4.509 Q2**

[49] Rehman, I., S. Ullah, and M. Raees. "Two Hand Gesture Based 3D Navigation in Virtual Environments." *International Journal of Interactive Multimedia and Artificial Intelligence* 5, no. 4: 128-140 (2019). **Impact Factor: 2.561 Q2**

[30] M. Raees, S. Ullah. GIFT: Gesture-Based Interaction by Fingers Tracking, an Interaction Technique for Virtual Environment, *International Journal of Interactive Multimedia and Artificial Intelligence*, 2019, <http://dx.doi.org/10.9781/ijimai.2019.01.002>, **Impact Factor: 2.561 Q2**

[31] M. Raees, S. Ullah and S. U. Rahman "GIST: Gesture Identification by the Status of Thumb", *Journal of Artificial Intelligence and Systems*, 1 (1), Pp. 125-142, DOI: [10.33969/AIS.2019.11008](https://doi.org/10.33969/AIS.2019.11008). (2019).

[32] Muhammad Raees, Sehat Ullah THE-3DI: Tracing Head and Eyes for 3D Interactions; an interaction technique for Virtual Environments, *Multimedia Tools and Applications*, **Impact Factor 2.313 Q2**

[33] SHAH KHALID, SEHAT ULLAH, NUMAN ALI, AFTAB ALAM, IHSAN RABBI, INAM UR REHMAN, MUHAMMAD AZHAR Navigation Aids in Collaborative Virtual Environments: Comparison of 3DML, Audio, Textual, Arrows-Casting, Accepted for Publication in IEEE Access, **Impact factor of 3.745 Q1**

## **Year: 2018**

[34] Sehat Ullah, Numan Ali, Sami ur Rahman, The Effect of Procedural Guidance on Students' Skill Enhancement in a Virtual Chemistry Laboratory, *Journal of Chemical Education*, vol= 93, issue = 12 pages= 2018-2025, 2016, **Impact Factor: 1.385 Q3**

[35] Fakhre Alam, Sami Ur Rahman, Sehat Ullah, Kamal Gulati Medical image registration In image guided surgery: Issues, challenges and research opportunities *biocybernetics and biomedical engineering* 38 (2018) 71–89, **Impact Factor= 2.537 Q2**

[36] D. Khan, S. Ullah, and I. Rabbi, P. Richard, T. Hoang and M. Billingham, XIAOPENG ZHANG1 "Robust tracking through the design of high quality fiducial markers", *IEEE Access* 2018, **Impact factor of 3.745 Q1**

# DR. SEHAT ULLAH

Associate Professor Department of CS & IT · Cell: 0348-8444100

Email: [sehatullah@hotmail.com](mailto:sehatullah@hotmail.com)

[37] Shah Khalid, Sehat Ullah, Nasir Rashid Survey: Factors Affecting User Performance in Collaborative Virtual Environments, *Journal of Information Communication Technologies and Robotic Applications* (2018), Page: 71-84 (**X Category**)

## Year: 2017

[38] Muhammad Raees, **Sehat Ullah**, Chordball: A Rotation Technique For 3D Virtual Environments, *Pakistan Journal of Science*, Vol. 69 No. 1, 85-94, March, 2017 (**X**)

[39] Fakhre Alam, Sami Ur Rahman, Adnan Khalil, **Sehat Ullah**, Shah Khusro, Quantitative Evaluation of Intrinsic Registration Methods for Medical Images: A Survey *Sindh Univ. Res. Jour. (Sci. Ser.)* Vol. 49 (1) 43-48 (2017) (**X**)

[40] Ihsan Rabbi, **Sehat Ullah**, Automatic Generation of Layered Marker for long range Augmented Reality Applications, *Kuwait Journal of Science* 44 (3) pp. 44-55, 2017, **Impact Factor (ISI): 0.519 Q4**

[41] S. Khalid, **S. Ullah**, A. Alam and N. Ali Network Latency Effect On User Performance In Collaborative Virtual Environment Using Task Distribution Model, *Pakistan Journal of Science*, Vol. 69 No. 2 June, 2017, pages: 235-239 (**X**)

## Year: 2016

[42] Aftab Alam, **Sehat Ullah**, M. Zamir Burqi, Aman ullah and Numan Ali, Evaluating Students Performance in Adaptive 3D-Virtual Learning Environments Using Fuzzy Logic, *Sindh Univ. Res. Jour. (Sci. Ser.)* 48 (2) June 2016 (**X**)

[43] Mohammad Raees, **Sehat Ullah**, Sami ur Rahman, Ihsan Rabbi, Image based recognition of Pakistan Sign Language, *Journal of Engineering Research*, ISSN: 2307-1877 vol. 4 no. 1 (2016), pages: **Impact Factor: 0.387 Q4**

[44] Hussain Rahman, Fakhrud Din, Sami ur Rahman, **Sehat ullah**, Performance Evaluation of Region-Growing Based Segmentation Algorithms for Segmenting the Aorta, *Jurnal Teknologi* (Scopus indexed) (2016) (**X**)

[45] Fakhre Alam, Sami Ur Rahman, Shah Khusro, **Sehat ullah**, Evaluation of Medical Image Registration Techniques Based on Nature and Domain of the Transformation, *Journal of Medical Imaging and Radiation Sciences* (2016) (**Y**)

[46] Inam Ur Rahman **S. ULLAH**, The Effect Of Constraint Based Multi-Modal Virtual Assembly On Student's Learning, *Sindh Univ. Res. Jour. (Sci. Ser.)* Vol. 48 (1) 89-94 (2016) (**X**)

[47] Shah Khalid, **Sehat Ullah**, and Aftab Alam Task Distribution Mechanism for Effective Collaboration in Virtual Environments, *Proceedings of the Pakistan Academy of Sciences: Pakistan Academy of Sciences A. Physical and Computational Sciences* 53 (1): 49-59 (2016). (**X**)

# DR. SEHAT ULLAH

Associate Professor Department of CS & IT · Cell: 0348-8444100

Email: [sehatullah@hotmail.com](mailto:sehatullah@hotmail.com)

[48] S. KHALID , S. ULLAH, N. ALI The Effect Of Task Distribution Model On Student Learning And Performance In Collaborative Virtual Environment, *Sindh Univ. Res. Jour. (Sci. Ser.)* Vol. 48 (3) ?? (2016) (X)

[40] Aftab Alam, Sehat Ullah, A Student Friendly Framework for Adaptive 3D-Virtual Learning Environments" *Pakistan Academy of Sciences Journal*, 53 (3): 255–266, 2016 (X)

[50] S. Ullah, D. Khan, S. U. Rahman and A. Alam, Marker Based Interactive Writing Board For Primary Level Education, *Pakistan Journal of Science*, 68(3) 366-371, 2016 (X)

[51] S. Khalid, Sehat Ullah A. Alam Merging Assistance Function with Task Distribution Model to Enhance User Performance in Collaborative Virtual Environment, *The Nucleus*, 53, No. 2 (2016) 147-154 (Y)

[52] Sehat ullah, Measuring Students' Learning and Task Performance Using Semantic Multi-Modal Aids in Virtual Assembly Environments, *Technical Journal University of Engineering and Technology Taxila, Pakistan*, 21(4), 103-113, 2016 (Y)

[53] F. Alam, S. U. Rahman, S. Ullah A. Khalil, A Review on Extrinsic Registration Methods for Medical Images. *Technical Journal, University of Engineering and Technology (UET) Taxila, Pakistan* Vol. 21 No. 3-2016 (Y)

[54] Hussain Rahman, Fakhrud Din, Sami ur Rahmana, Sehatullah Performance Evaluation Of Regiongrowing Based Segmentation Algorithms For Segmenting The Aorta, *Jurnal Teknologi* 78: 4–3 (2016) 9–15 eISSN 2180–3722 (X)

[55] AFTAB ALAM, SEHAT ULLAH, NUMAN ALI, The Effect of Learning Based Adaptivity on Students' Performance in 3D-Virtual Learning Environments *IEEE Access* **Impact factor of 3.745 Q1**

## Year: 2016

[56] Shah Khalid, Sehat Ullah ,Aftab Alam, Sami Ur Rahman A New Task Distribution Model To Increase User Performance In Collaborative Virtual Environment, *Jurnal Teknologi* vol. 78, No. 4-3, pages: 1-7 (X)

[57] Shah Khalid, Sehat Ullah "Optimal Latency in Collaborative Virtual Environment to Increase User Performance: A Survey" *International Journal of Computer Applications, Foundation of Computer Science*, New York, USA.

## Year: 2015

[58] Ihsan Rabbi, Sehat Ullah, Aftab Alam **Marker Based Tracking in Augmented Reality Applications using ARToolKit: A Case Study** , *Journal of Engineering and Applied Sciences (JEAS)*, University of Engineering & Technology Peshawar, Vol: 34 No. 1 (2015), pages: (X)

# DR. SEHAT ULLAH

Associate Professor Department of CS & IT · Cell: 0348-8444100

Email: [sehatullah@hotmail.com](mailto:sehatullah@hotmail.com)

[59] Dawar Khan, **Sehat Ullah** and Ihsan Rabbi Factors affecting the design and tracking of ARToolKit markers, *Computer Standards & Interfaces*, vol. 41 (2015), pages: 55-66, **Impact Factor: 2.809 Q1**

[60] Ihsan Rabbi, **Sehat Ullah**. Extending the Tracking Distance of Fiducial Markers for Large Indoor Augmented Reality Applications, *Advances in Electrical and Computer Engineering*, Vol. 15 (2), 2015, Pages: 59-64, **Impact Factor: 1.102 Q4**

[61] MUHAMMAD RAEES, **SEHAT ULLAH** AND IHSAN RABBI Steps Via Fingers: A New Navigation Technique for 3D Virtual Environments, *Mehran University Research Journal of Engineering & Technology*, Volume 34, Issue S1, August, 2015 [ISSN 0254-7821], Page= 149-156 (X)

[62] N. ALI, **S. ULLAH**, A. ALAM, I. RABBI, The Effect of Multimodality and 3D Interaction in a Virtual Laboratory on Students' Learning in Chemistry Education, *Sindh Univ. Res. Jour. (Sci. Ser.)* Vol. 47 (4) 703-708 (2015) (X)

## Year: 2014

[63] Rabbi, Ihsan; **Ullah, Sehat**; Rahman, Sami , Aftab Alam Extending the Functionality of ARToolKit to Semi-controlled/uncontrolled Environment, *Information Journal Japan*, vol. 17 No. 6B (2014), pages: 2823-2831 (Y)

## Year: 2013

[64] **Iqbal** Ahmad, Alam Zeb, **Sehat Ullah** and Azghar Ali, Relationship between Self-Esteem and Academic Achievements of Students: A Case of Government Secondary Schools in District Swabi, KPK, Pakistan, *International J. Soc. Sci. & Education*, 2013 Vol.3 Issue 2, ISSN: 2223-4934 E and 2227-393X Print

[65] Ihsan Rabbi, **Sehat Ullah**, "A Survey of Augmented Reality Challenges and Tracking", *ACTA GRAPHICA*, ISSN: 0353-4707, Vol 24, No 1-2 (2013) Pages= 29-46, Getaldiceva 2, HR-10000 Zagreb.

[66] Aftab Alam, **Sehat Ullah**, Shah Khalid, Fakhruddin Computer Supported Collaborative Work (CSCW) and Network Issues: A Survey, *Information journal japan*, vol. 16 No. 11 (2013), pages: 7995-8019 (Y)

## Year: 2012

[67] Ihsan Rabbi,, **Sehat Ullah**, Siffat Ullah Khan Augmented Reality Tracking Techniques: A Systematic Literature Review Protocol , *IOSR Journal of Computer Engineering (IOSRJCE 2278-0661)*, ISSN: Volume 2, Issue 2 (July-Aug. 2012), PP 23-29



# DR. SEHAT ULLAH

Associate Professor Department of CS & IT · Cell: 0348-8444100

Email: [sehatullah@hotmail.com](mailto:sehatullah@hotmail.com)

## Year: 2011

[68] Aftab Alam, **Sehat Ullah**, Ishtiaq Wahid, Shah Khalid, Universal Playfair Cipher Using  $m \times n$  Matrix, *International Journal of Advance Computer Science*, pages= 113-117, Year 2011

## Year: 2009

[69] **Sehat Ullah**, Nassima Ouramdane, Samir Otmane, Paul Richard, Frédéric Davesne, Malik Mallem, “Augmenting 3D Interactions with haptic guides in a Large-Scale Virtual Environment” *International Journal of Virtual Reality*, pages 25-31, Vol. 8, N° 2. 2009.

[70] **Sehat Ullah**, Paul Richard, Samir Otmane, Malik Mallem, “Human Performance in Cooperative Virtual Environments: the Effect of Visual Aids and Oral Communication” *International Journal of Virtual Reality*, Vol. 8, N° 4. 2009.

## Year: 2008

[71] Damien Chamaret, **Sehat Ullah**, Paul Richard and Mickael Naud, Integration and evaluation of haptic feedbacks: from CAD models to virtual prototyping, *International Journal on Interactive Design and Manufacturing*, volume 4, No. 2 Pages: 87-94: DOI10.1007/s12008-010-0089-1 (X)

[72] Muhammad Raees, **Sehat Ullah**, Sami Ur Rahman VEN-3DVE: vision based egocentric navigation for 3D virtual environments, *International Journal on Interactive Design and Manufacturing (IJIDeM)* <https://doi.org/10.1007/s12008-018-0481-9> (X)

## International Conferences:

### Year: 2018

[1] Liaqat Ali, **Sehat Ullah** "A New Framework for Easy and Efficient Augmentation of PrimaryLevel Books” 5<sup>th</sup> International Conference on Augmented Reality, Virtual Reality and Computer Graphics (Salento AVR (2018) held in Otranto (Italy) from June 24-27, 2018.

[2] Sana ullah, Sami ur Rahman, **Sehat Ullah**, A Mobile Camera based Navigation System for Visually Impaired People, 2<sup>nd</sup> International Conference on Imaging, Signal Processing and Communication, held from July 20-22, 2018, Kuala Lumpur Malaysia

### Year: 2017

[3] Sana ullah, Sami ur Rahman, **Sehat Ullah**, Obstacle detection in indoor environment for visually impaired using mobile camera, in proceedings of 2<sup>nd</sup> international conference on Communication, Image and Signal Processing held from 17-20 November 2017, Shenzhen China.

# DR. SEHAT ULLAH

Associate Professor Department of CS & IT · Cell: 0348-8444100

Email: [sehatullah@hotmail.com](mailto:sehatullah@hotmail.com)

[4] ShahSani R.K., **Ullah S.**, Rahman S.U. (2017) Automated Marker Augmentation and Path Discovery in Indoor Navigation for Visually Impaired. In: De Paolis L., Bourdot P., Mongelli A. (eds) Augmented Reality, Virtual Reality, and Computer Graphics. AVR 2017. Lecture Notes in Computer Science, vol 10324. Springer, Cham, page; 427-437

## **Year: 2016**

[5] Aftab Alam, **Sehat Ullah**, Adaptive 3D- Virtual Learning Environments: From Students Learning Perspective, Accepted for Publication in the proceedings of Frontiers of Information Technology (FIT 2016) Conference to be held in December 2016, Islamabad Pakistan.

## **Year: 2015**

[6] Muhammad Azhar, **Sehat Ullah**, Inam ur Rahman , Multimodal Multi-layered Hierarchical Bounding based Interaction in virtual Environments, In Proceedings of the 2015 Virtual Reality International Conference, Laval, France — April 08 - 10, 2015, ISBN: 978-1-4503-3313-9 doi>[10.1145/2806173.2806186](https://doi.org/10.1145/2806173.2806186),

## **Year: 2014**

[7] Numan Ali, **Sehat Ullah**, Ihsan Rabbi, Muhammad Javed, Kartinah Zen “Multimodal Virtual Laboratory for the Students’ Learning Enhancement in Chemistry Education” 1<sup>st</sup> International Conference of Recent Trends in Information and Communication Technologies, IRICT 2014 Proceeding 12<sup>th</sup>-14<sup>th</sup> September, 2014, Universiti Teknologi Malaysia, Johor, Malaysia, pages: 291-299

[8] Ihsan Rabbi, **Sehat Ullah**, Muhammad Javed, Kartinah Zen “Analysis of ARToolKit Fiducial Markers Attributes for Robust Tracking” 1<sup>st</sup> International Conference of Recent Trends in Information and Communication Technologies, IRICT 2014 Proceeding 12<sup>th</sup>-14<sup>th</sup> September, 2014, Universiti Teknologi Malaysia, Johor, Malaysia, pages: 281-290

[9] Dawar Khan, **Sehat Ullah**, Ihsan Rabbi “Sharp-Edged, De-noised, and Distinct (SDD) Marker Creation for ARToolKit” 20th International Conference, ICIST 2014, Druskininkai, Lithuania, October 9-10, 2014. Information and Software Technologies, Communications in Computer and Information Science Volume 465, 2014, pp 396-407, DOI: 10.1007/978-3-319-11958-8\_32

[10] Numan Ali, **Sehat Ullah**, Aftab Alam, and Jamal Rafique 3D Interactive Virtual Chemistry Laboratory for Simulation of High School Experiments, *Proceedings of EURASIA GRAPHICS 2014, Paper 12, Hacettepe University Press, Ankara, Turkey, Oct 2014.*

[11] Mohammad Raees, **Sehat ullah**, Alphabet Signs Recognition using Pixels-based Analysis, Proceedings of the conference on Language and Technology, 13-15 November 2014, Karachi Pakistan, Pages : 63-70

# DR. SEHAT ULLAH

Associate Professor Department of CS & IT · Cell: 0348-8444100

Email: [sehatullah@hotmail.com](mailto:sehatullah@hotmail.com)

[12] Rabbi, I., **Ullah, S.**: 3D Model Visualization and Interaction using a Cubic Fiducial Marker. In: 1st International Conference on Augmented and Virtual Reality (AVR'14), pp. 381-393. Springer International Publishing Switzerland, (2014)

[13] Numan Ali, **Sehat Ullah**, Ihsan Rabbi and Aftab Alam, The effect of MultiModal Virtual Chemistry Laboratory on Students' Learning Improvement In: 1st International Conference on Augmented and Virtual Reality (AVR'14), pp. 65-76. Springer International Publishing Switzerland, (2014)

[14] D. Khan, **S. Ullah**, and I. Rabbi, "Optimality of black to white ratio and information complexity for robust marker recognition, in proceeding of the 4th International Conference on Image Processing Theory, Tools and Applications, (Paris, France), pp. 283–288, 2014.

[15] D. Khan, **S. Ullah**, and I. Rabbi, "Classification of markers in the ARToolKit library to reduce inter-marker confusion", in proceeding of the 12th International Conference on Frontiers of Information Technology (Islamabad, Pakistan), pp. 269-273, 2014.

[16] Inam Ur Rehman, Sehat Ullah, and Ihsan Rabbi. Measuring the Students Success Rate Using a Constraint Based Multi-modal Virtual Assembly Environment". (Published in the proceeding of 1st International Conference on Augmented and Virtual Reality 2014 Italy) [SALENTO AVR 2014 Italy by Springer] Lecture Notes in Computer Science 2014, pp 5364. [http://link.springer.com/chapter/10.1007/978-3-319-13969-2\\_4](http://link.springer.com/chapter/10.1007/978-3-319-13969-2_4)

[17] Inam Ur Rehman, **Sehat Ullah**, and Ihsan Rabbi. "The effect of semantic multi-modal aids using guided virtual assembly environment." In Open Source Systems and Technologies (ICOSST), 2014 International Conference on, pp.87-92. IEEE, 2014.

[18] Aurang Zeb, **Sehat ullah**, Ihsan Rabbi Indoor vision-based auditory assistance for blind people in semi controlled environments, 4th International Conference on Image Processing Theory, Tools and Applications (IPTA), 14-17 Oct. 2014, paris, pages: 1-6

[19] M. Raees and **S.Ullah**, "Continous Number Signs Recognition", 12th International Conference on Frontiers of Information Technology(FIT), Islamabad Pakistan, p.274-279 (2014).

## **Year: 2011**

[20] **Sehat Ullah**, Xianging Liu, Samir Otmane, Paul Richard and Malik Malleem " What You Feel Is What I DO: A study of dynamic haptic interaction in distributed collaborative virtual environment" In 14th International Conference on Human-Computer, 9-14 July 2011, Hilton Orlando Bonnet Creek, Orlando, Florida, USA , PAGES = {140-147}

## **Year: 2010**

[21] **Ullah, Sehat**; Richard, Paul; Otmane, Samir; Naud, Mickael; Malleem, Malik, Haptic guides in cooperative virtual environments: Design and human performance evaluation, in proceedings of IEEE Symposium on haptics, 2010, pages: 457—462

# DR. SEHAT ULLAH

Associate Professor Department of CS & IT · Cell: 0348-8444100

Email: [sehatullah@hotmail.com](mailto:sehatullah@hotmail.com)

## **Year: 2009**

[22] **Sehat Ullah**, Paul Richard, Samir Otmane, Malik Mallem, “Cooperative Teleoperation Task in Virtual Environment: the Influence of Visual Aids and Oral Communication”. International Conference on Informatics Control, Automation and Robotics (ICINCO 09) Pages: 374-377. 2-5 July 2009, Milan Italy.

[23] Michael Naud, **Sehat Ullah**, Paul Richard, Samir Otmane, Malik Mallem, “Effect of Tactile feedback and viewpoint on task performance in a collaborative virtual environment“ In proceedings of Joint Virtual Reality Conference(JVRC) 7-9 December 2009 Pages:19--20 Lyon France

[24] D. Chamaret, M. Naud, L. Hamon, **S. Ullah**, E. Richard, P. Richard, Human-Scale Haptic Interaction Using the SPIDAR ,In proceedings of VRC09 – Joint Virtual Reality Conference of EGVE – ICAT – EuroVR , 2009 Spidar Anniversary Symposium Pages: 123—128

[25] Damien Chamaret, **Sehat Ullah**, Paul Richard, “Interaction with Virtual Mock-up: Methodology and Human Performance Evaluation. International Conference on Informatics Control, Automation and Robotics (ICINCO 09), Pages 453-456, 2-5 July 2009, Milan Italy.

[26] **Sehat Ullah**, Paul Richard, Samir Otmane, Malik Mallem, “The Effect of Audio and Visual Aids on Task Performance in Distributed Collaborative Virtual Environments” 2 nd Mediterranean Conference on Intelligence Systems and Automation (CISA 09) Pages :196-201, 23-25 march 2009, Zarsis, Tunisia.

[27] **Sehat Ullah**, Samir Otmane, Paul Richard, Malik Mallem “ The Effect of Hatpic Guides on humane performance in Virtual Environments” International Conference on Computer Graphics Theory and Applications (GRAPP 09) Pages: 322-327, 5-8 feb 2009, Lisbon Portugal

## **Year: 2007**

[28] **Sehat Ullah**, Samir Otmane, Paul Richard, “Haptic Feedback in Large-Scale VEs: Evaluation of SPIDAR-G” Proceedings of ENACTIVE/07 4th International Conference on Enactive Interfaces Grenoble, France, Pages: 189-192, November 19th-22nd, 2007

# DR. SEHAT ULLAH

Associate Professor Department of CS & IT · Cell: 0348-8444100

Email: [sehatullah@hotmail.com](mailto:sehatullah@hotmail.com)