Dimo Chotrov, TU-Sofia

	Titel: Assist. Prof.
	Institution: TU-Sofia
	Bereich: Virtuelle & Erweiterte Realität
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Derzeitige Funktion:
Lecturer / Forscher
Arbeitsgebiet:
Virtuelle & Erweiterte Realität, Mensch-Maschine Schnittstelle, Software Entwicklung

Promotionsberechtigt:　　　☐ ja　　　☒ nein

Forschungskompetenz:
Computer graphics, Virtual & Augmented Reality, Human Computer Interaction

Forschungshintergrund:
- Integrating Engineering Applications in Virtual Reality Systems (PhD Thesis)
- Enhanced Immersive Representation of Objects In Virtual Reality Environment Implementing Implicit Features (nationales Forschungsprojekt)
- Large Scale Industrial Structural Optimisation (Forschungsproject FP7)
- University Scientific Research Centre (nationales Forschungsprojekt)
- Virtual and Augmented Reality in Design for Manufacture (Erasmus+ Projekt)

Gewünschte Forschungskooperationen:

Forschungsthemen:
VR/AR – Anwendungen im Ingenieurwesen, Ausbildung, Kulturelles Erbe, usw.;

Bereits bestehende Kooperationen:
KIT - LESC

Ggf. bestehende Förderprogramme:
- HeritageBG - https://www.nasledstvo.bg/ (auf Bulgarisch)
- Kulturelles Erbe, nationales Gedächtnis und gesellschaftliche Entwicklung - https://kinnpor.uni-sofia.bg/ (auf Bulgarisch)

Wunschpartner beim FDIBA-Projekt:
KIT, Magdeburg

Publikationen (max. 10):

1. Bachvarov, A., Maleshkov, S., Chotrov, D., Katicic, J.: Immersive Representation of Objects in Virtual Reality Environment Implementing Implicit Properties, 4-th International Conference on Developments in eSystems Engineering - DeSE 2011, Springer (2011)

2. Maleshkov, S.; Bachvarov, A.; Chotrov, D.; Ovtcharova, J.; Katicic, J.: Using implicit features for enhancing the immersive object representation in multimodal virtual reality environments, Virtual Environments Human-Computer Interfaces and Measurement Systems (VECIMS), 2012 IEEE International Conference, 2012, pp. 91-96

3. D. Chotrov, S. Maleshkov: Simultaneous Bidirectional Geometric Model Synchronization between CAD and VR Applications, 9th International Symposium on Visual Computing (ISVC 2013), July 29-31, 2013, Rethymnon, Crete, Greece, DOI:https://doi.org/10.1007/978-3-642-41939-3_28

4. D. Chotrov: Methods for Generating and Displaying Stereo Images on VR Systems using Quad-Buffered Graphics Adapters, 9th Annual International Conference on Computer Science and Education in Computer Science (CSECS 2013), 29 –30 June 2013, Fulda, Germany

5. A. Bachvarov, S. Maleshkov, D. Chotrov, Extending Configuration and Validation of Customized Products by Implicit Features in Virtual Reality Environments, Proceedings of the 7th World Conference on Mass Customization, Personalization, and Co-Creation (MCPC 2014), Aalborg, Denmark, February 4th - 7th

7. Zlatka Uzunova, Dimo Chotrov, Stoyan Maleshkov, Virtual Reality System for Motion Capture Analysis and Visualization for Folk Dance Training, 12th Annual International Conference on Computer Science and Education in Computer Science (CSECS 2016), 01-02 July 2016, Fulda Germany

6. D. Chotrov, A. Bachvarov, S. Maleshkov, Automatic CAE Mesh and Analysis Results Export for Presentation in Virtual Reality Environments, International Journal of Engineering Research and Management (IJERM), December 2016, Vol. 3, Issue 12, pp. 51-55

8. Omar Huerta, Ertu Unver, Ridvan Aslan, Abdil Kus, Dimo Chotrov, Application of VR and AR Tools for Technical Drawing Education, Proceedings of the 16th annual International CAD Conference – CAD'19, 12.06.2019, DOI: 10.14733/cadconfP.2019.363-366

9. Angel Bachvarov, Dimo Chotrov, Zlatka Uzunova, Yordan Yordanov, Conceptual Model of the VR Module for "Virtual Plaza for Interactive Presentation of Bulgarian Cultural Heritage", Proceedings of the 45th International Conference Applications of Mathematics in Engineering and Economics (AMEE'19), Sozopol, 7 – 13.06.2019

10. Dimo Chotrov, Zlatka Uzunova, Stoyan Maleshkov, Real-time 3D model topology editing method in VR to simulate crafting with a wood turning lathe, 15th Annual International Conference On Computer Science And Education In Computer Science (CSECS 2019), Fulda, Germany, 28.06 – 01.07.2019