

TUGRUL KAGAN ATES

CONTACT

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EDUCATION

2007 – Present: Middle East Technical University (METU) Electrical and Electronics Engineering, M.S. Student

- Specialization: Computer Vision, Robotics
- Working on M.S. Project
Stereo plus ToF Freeview Image Synthesis with GPU
- Completed Course Project on Pattern Recognition
Real-Time Visual Hand Gestures Recognition
- Completed Course Project on Computer Vision
Content Copy Detection with SIFT
- Completed Course Project on Artificial Intelligence
Attended Netflix Prize Competition

2003 – 2007: Middle East Technical University (METU) Electrical and Electronics Engineering, B.S. Graduate

- Specialization: Digital Signal Processing, Computers
- Completed Graduation Project on Robotics
Autonomous Robots in Self Aligned Formations
- Completed Course Project on Computer Graphics
2D/3D Indoor Architectural Designer

1996 – 2003: Gazi Anatolian High School

- Attended TUBITAK National Computer Science Olympiad
Third Position and Award in First Round
- Organized Chess Tournaments

EXPERIENCE

2006 April – Present: The Scientific and Technological Research Council of Turkey (TUBITAK) Space Technologies Research Institute (UZAY) Researcher in Video and Audio Processing Group

- Project on Semantic Classification of Mass Broadcast Media
Responsible for Classifiers
- Completed a Research Project on Video Content Copy Detection
- Completed Project on Analysis and Storage of Broadcast Media
Responsible for Automatic TV Logo Detection
Research on Detection of Broadcast Logos in TV Streams
Designed and Developed Graphical Annotation Software

2006 August: The Scientific and Technological Research Council of Turkey (TUBITAK)

Space Technologies Research Institute (UZAY) Research Intern in Video and Audio Processing Group

- Research and Development on JAWS Watermarking
Implemented a JAWS-like Watermarking System on GPU

2005 July, August: Turk Telecommunications (TT) Maintenance Intern in Asymmetric Digital Subscriber Lines

- Internship on Fixed Line POTS, ADSL, G.SHDSL
Networking of Fixed Line POTS, ADSL, G.SHDSL
Multiplexing of Telephone and Digital Subscriber Lines

SELECTED PUBLICATIONS

Conference Papers

- Hakan Sevimli et al., "Adult image content classification using global features and skin region detection," in *Proceedings of the 25th International Symposium on Computer and Information Sciences (ISCIS)*, London, England, United Kingdom, 2010.
- Ünal Zubari et al., "Speech detection on broadcast audio," in *Proceedings of the 18th European Signal Processing Conference (EUSIPCO)*, Aalborg, Denmark, 2010.
- Tuğrul K. Ateş et al., "Content based video copy detection with local descriptors," in *Proceedings of the IEEE 18th Signal Processing, Communication and Applications Conference (SIU)*, Diyarbakır, Turkey, 2010.
- Ahmet Saracoğlu et al., "Content based copy detection with coarse audio-visual fingerprints," in *Proceedings of the 7th International Workshop on Content-Based Multimedia Indexing (CBMI)*, Chania, Crete, Greece, 2009, pp. 213-218.
- Ersin Esen, Medeni Soysal, Tuğrul K. Ateş, Ahmet Saracoglu, and A. Aydın Alatan, "A fast method for animated TV logo detection," in *Proceedings of the 6th International Workshop on Content-Based Multimedia Indexing (CBMI)*, London, England, United Kingdom, 2008, pp. 236-241.
- Tuğrul K. Ateş, Ersin Esen, Ahmet Saracoğlu, and A. Aydın Alatan, "Boundary matching based translucent tv logo detection," in *Proceedings of the IEEE 16th Signal Processing, Communication and Applications Conference (SIU)*, Didim, Aydın, Turkey, 2008.

SKILLS AND KNOWLEDGE

Languages

English, Turkish

Programming Languages

C++, C, Python, Java, PHP, MatLab

GLSL, CUDA, Cg, CgFX

Assembly: x86, 6502, 6811,

QBASIC, CBM BASIC

APIs and Libraries

OpenGL (and GLU, GLUT, GLEW, GLUI)

Qt, GTK+, GDK, libglade, MFC, WinAPI, GDI, SWT

SDL, PTC, PixelToaster, OpenCV, FMod, ffmpeg

Developed Under/For

Windows 98/2000/XP/Vista, GNU/Linux

Nintendo DS, GP2X

MS-DOS, C64, M68HC11

Developed With

Eclipse/CDT/JDT/PyDev/Subclipse, make, SCons

MSVC 2003/2005/2008, wedit

HyperTerminal/Buffalo Monitor

PERSONAL INTERESTS

- Demoscene
Ranked First in 64K Demo Competition at 7D5
First Prize with a Text Mode Demo at Nightshift '06
First Prize in 256b Demo at 7D6
First Prize in GP2X Demo Competition at 7D6
- Computer Animations, Digital Drawing, Isometric Pixel Art
- Science-Fiction, Comics, Cycling, StarCraft, Progressive Rock