Wenyuan Gao

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EDUCATION

09/2014 - 06/2018 **Shanghai Jiao Tong University (SJTU)**

- B.S., Computer Science, Department of Computer Science and Engineering
- GPA: 3.88/4.3 (90.61/100); Rank: **3/146**;
- Professional Courses: Data structure (96/100); Computer Graphics (97/100); Operating System (93/100)
- My homepage: https://gork2.github.io/

SELECTED HONORS AND AWARDS

- National 1st Prize, 2016 China Undergraduate Mathematical Contest in Modelling
- Meritorious Winner, 2016 Mathematical Contest in Modeling (MCM)
- National 1st Prize, 2016 China Robot Competition, Basketball Robot Simulation Project
- National Scholarship (3/146), 2016
- A-class University Scholarship (1/146), 2016
- Penn scholarship for Academic Excellence (5/146), 2015
- Outstanding Volunteer and Excellent Member of SJTU, 2016

PATENT & PUBLICATION

- Wenmian Yang, Weijia Jia, **Wenyuan Gao,** "Crowdsourced Time-sync Video Tagging using Semantic Association Graph", *IEEE International Conference on Multimedia and Expo (ICME)*, July, 2017, Hong Kong
- **Wenyuan Gao,** Yuxin Tang, "A new wireless network sensor", CHN, Patent Application No. 201621289352.4
- Yuxin Tang, **Wenyuan Gao,** "A novel outdoor router system", CHN, Patent Application No. 201621239380.5
- Shanghai Jiao Tong University, **Wenyuan Gao,** "Three dimensional simulation system for automatic guided vehicle scheduling demonstration and algorithm verification", CHN, Patent Application No. 201610244118.8

RESEARCH EXPERIENCE

Crowdsourced Time-sync Video Tagging using Semantic Association Graph, Embedded and Pervasive Computing Center, Weijia Jia, 03/2016 - now

- Proposed an algorithm (SW-IDF) to retrieve on-line video tags from time-sync comments
- Submitted a paper to the ICME conference in 2017 as the third author
- Techniques: Natural language processing, Topic model, Machine learning, Word2vec

Blood Vessel Segmentation System, Visual Media and Data Management Lab, Bin Sheng, 09/2016-02/2017

- Derived 2D blood vessels segmentation image from vessel image by deep learning
- Reconstructed 3D model of blood vessel growth with segment parameters using OpenGL
- Techniques: CNN, TensorFlow, CUDA, OpenGL, OpenCV

Visual Simulation System based on LabVIEW for Robot Scheduling, Team Leader, National Undergraduate Innovative Test Program, Jingchuan Wang, 09/2015 - 09/2016

- Built a 3D visual simulation system for logistics robot scheduling
- Designed Robot path optimization algorithm, conflict management and computer vision
- Software and tools: LabVIEW, LabVIEW Robotics, SolidWorks

COMPUTER SKILLS

- Programming Languages: C++, Python, LabVIEW, MATLAB, HTML
- Network Protocol: HTTP, TCP/IP, UDP
- Curriculum Design: Compiler principles, Operating system, Computer composition, Computer graphics

高文源

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教育经历

09/2014 - 06/2018 上海交通大学 **(SJTU)**

- 计算机科学与技术专业 电子信息与电气工程学院 本科大三
- GPA: 3.88/4.3 (90.61/100); 专业排名: 3/146; 托福成绩: 100
- 专业课成绩: 数据结构: 96; 计算机图形学: 97; 操作系统: 93; 计算机组成：95

荣誉与奖项

- 全国一等奖 2016 全国大学生数学建模竞赛
- 一等奖 2016 美国大学生数学建模竞赛(MCM)
- 冠军 2016 中国机器人大赛篮球仿真机器人项目
- 国家奖学金 (专业前三) 2016
- 校 A 类奖学金 (专业第一) 2016
- 潘文渊奖学金 (专业前五) 2015
- 校优秀志愿者，校优秀团员，校社会实践先进个人 2016

论文与专利

- Wenmian Yang, Weijia Jia, **Wenyuan Gao,** "Crowdsourced Time-sync Video Tagging using Semantic Association Graph", *IEEE International Conference on Multimedia and Expo (ICME)*, July, 2017, Hong Kong
- **高文源**, 唐宇新, "新型无线网络传感器", 中国发明专利, 申请号 No. 201621289352.4
- 唐宇新, **高文源**, "一种新型的室外路由器系统", 中国发明专利, 申请号 No. 201621239380.5
- 上海交通大学, **高文源**, "用于自动导引车调度演示与算法验证的三维仿真系统", 中国发明专利, 申请号 No. 201610244118.8

科研经历

通过建立语义关联图提取视频标签, 嵌入式与普适计算实验室, 贾维嘉, 03/2016 – 现在

- 提出 SW-IDF 算法，从时事评论中挖掘语义关联，从而提取视频标签
- 以第三作者的身份在 2017 年 ICME 会议上发表论文
- 运用技术: 自然语言处理, 主题模型，知识图谱, 机器学习，

基于深度学习的眼底血管识别与三维重构系统, 可视媒体与数据管理实验室, 盛斌, 09/2016-02/2017

- 使用深度学习的方法从眼底血管图像中提取二维血管的相关参数，用 OpenGL 重构三维血管生长模型
- 运用技术: CNN, TensorFlow, CUDA, OpenGL, OpenCV

基于 LabVIEW 的物流机器人(AGV)调度可视化仿真系统, 大学生创新计划项目组长，王景川，09/2015 - 09/2016

- 建立三维的物流机器人仿真平台，实现实时监控、效率评测、路径规划等功能
- 基于机器人视觉、机器人运动学，开发物流机器人最优调度算法，解决路径冲突等问题
- 作为领队代表学校参加 2016 中国机器人大赛篮球仿真机器人项目获得冠军
- 开发软件: LabVIEW, LabVIEW Robotics, SolidWorks

专业技能

- 编程语言: C++, Python, LabVIEW, MATLAB, HTML
- 计算机视觉: OpenCV, OpenGL
- 计算机网络: HTTP, TCP/IP, UDP
- 课程设计: 编译原理、操作系统、计算机体系结构、计算机图形学