

Ioannis Thomas Pavlidis

Curriculum Vitae
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Education

1996	Ph.D.	Computer Science	University of Minnesota
1995	M.S.	Computer Science	University of Minnesota
1989	M.S.	Robotics & Automation	Imperial College/University of London
1987	B.S. (Summa cum Laude)	Electrical Engineering	Democritus University of Thrace

Employment history

2006–Now	Eckhard-Pfeiffer Distinguished Professor , Department of Computer Science, University of Houston
2002–2006	Associate Professor , Department of Computer Science, University of Houston
2001–2002	Senior Principal Research Scientist , Honeywell Laboratories, Honeywell Inc.
1999–2001	Principal Research Scientist , Honeywell Laboratories, Honeywell Inc.
1997–1999	Senior Research Scientist , Honeywell Laboratories, Honeywell Inc.
1996–1997	Research Associate , Honeywell Laboratories, Honeywell Inc.
1994–1996	Research Assistant , Department of Computer Science, University of Minnesota
1992–1994	Teaching Assistant , Department of Computer Science, University of Minnesota

Honors and awards

2023	IEEE Fellow, Institute of Electrical and Electronics Engineers
2017	Faculty Research Award, Department of Computer Science, University of Houston
2014	Faculty Research Award, Department of Computer Science, University of Houston
2010	Research Poster Award, Annual Meeting of The National Center for Human Performance
2010	Ph.D. Research Award, ACM Conference on Human Factors in Computing Systems (CHI)
2009	Research Poster Award, Conference on Medical Image Computing & Computer Assisted Intervention (MICCAI)
2006	Eckhard-Pfeiffer Distinguished Professorship, Department of Computer Science, University of Houston
2004	Faculty Research Award, Department of Computer Science, University of Houston
2001	Technical Achievement Award, Highest Honors in Honeywell Inc.
2001	Laboratory Technical Award, Honeywell Laboratories, Honeywell Inc.
2001	Individual Technical Award, Honeywell Laboratories, Honeywell Inc.
1999	Individual Technical Award, Honeywell Laboratories, Honeywell Inc.
1997	Team Technical Award, Honeywell Laboratories, Honeywell Inc.
1991	Fulbright Fellowship
1987	Summa cum Laude, Democritus University of Thrace
1981	Scholastic Excellence Award, Greek Department of Education

Research

- Since 1994 I have authored 166 papers, chapters or books in computer science, biomedical, and cross-disciplinary topics (listed on pages 3–10). Included in this count are 11 patents, some of which led to successful products marketed by Honeywell Inc.
- As of January 2024, my h-index stands at 51 and my works have received over 9,300 citations. Google Scholar Profile: <https://scholar.google.com/citations?user=E3oBkwwAAAAJ&hl=en>.
- My current research is at the intersection of affective computing, data science, and science of science. Applications include human-machine partnerships, managing stress/distractions, and prediction of future science directions.
- I have produced 8 datasets, 2 software packages, and 7 R packages as a result of my research (listed on pages 11–12). Some of these products are widely used by academic researchers.

Grants

I have acquired about \$16.7 million in external research grants since 2003. I have been the Principal Investigator (PI) in the great majority of these grants.

2023–2026	E Leiss, S Huang, I Pavlidis, I Kakadiaris, R Verma. “REU Site: Research Experience for Undergraduates in frontiers in data-driven computing”. <i>Funding from NSF</i>	\$420,062
2021–2024	I Pavlidis. “NUBI-DRIVE: Ubiquitous 360 naturalistic driving studies for transportation research, management, and prevention”. <i>Funding from Texas A & M Transportation Institute</i>	\$286,920
2021–2023	E Grigorenko, D Francis, I Pavlidis, L Pollonini. “Manpower and personnel assessment battery”. <i>Funding from U.S. Navy Office of Naval Research</i>	\$2,259,417
2020–2023	E Leiss, S Huang, I Pavlidis, I Kakadiaris, R Verma. “REU Site: Undergraduate Research Experience in frontiers of data-driven computing”. <i>Funding from NSF</i>	\$402,726
2018–2024	P Cirino, I Pavlidis, T Tolar. “Math learning disabilities among young adults in college: Structure, identification, and validation”. <i>Funding from NSF</i>	\$2,473,793
2017–2020	I Pavlidis. “CHS: Medium: Collaborative Research: Managing stress in the workplace: Unobtrusive monitoring and adaptive interventions”. <i>Funding from NSF</i>	\$409,898
2017–2020	S Huang, E Leiss, I Pavlidis, I Kakadiaris, R Verma. “REU Site: Research Experience for Undergraduates in data-centric computing”. <i>Funding from NSF</i>	\$360,000
2017–2018	I Pavlidis. “Thermal response metrics for insider threat detection”. <i>Funding from IARPA</i>	\$66,445
2017–2018	I Pavlidis. “EAGER: From genomics to brain science: What makes researchers tick in transdisciplinary initiatives”. <i>Funding from NSF</i>	\$60,408
2017	I Pavlidis. “Residual data curation and analytics for the Toyota datasets”. <i>Funding from Texas A & M Transportation Institute</i>	\$50,000
2016–2017	I Pavlidis. “Reconstructive surgery resident stress while learning novel microsurgical tasks”. <i>Funding from The Methodist Hospital Research Institute</i>	\$8,686
2015–2016	I Pavlidis. “Yes we can”. <i>Funding from Arizona State University</i>	\$21,000
2014–2018	S Huang, E Leiss, I Pavlidis, I Kakadiaris, R Verma. “REU Site: Undergraduate Research Experience in multimedia data analytics”. <i>Funding from NSF</i>	\$360,001
2014–2017	I Pavlidis. “Toyota safety research project”. <i>Funding from Toyota Inc.</i>	\$563,130
2012–2013	I Pavlidis. “Air quality mapping and related data management”. <i>Funding from Houston Endowment</i>	\$40,000
2012–2013	I Pavlidis. “EAGER: The effect of stress and the role of computer mediation on exam performance”. <i>Funding from NSF</i>	\$193,231
2011–2015	S Huang, E Leiss, I Pavlidis, I Kakadiaris, R Verma. “REU Site: Undergraduate Research Experience in computational science”. <i>Funding from NSF</i>	\$350,000
2011–2015	I Pavlidis. “EESE: Experiencing ethics”. <i>Funding from NSF</i>	\$299,325
2011–2012	I Pavlidis. “Multi-spectral imaging for the simultaneous detection of stress and concealed objects”. <i>Funding from NIST</i>	\$50,000
2010–2012	I Pavlidis. “Spectral imaging sensor for improved biometric and human intent analysis II”. <i>Funding from DOD</i>	\$239,974
2010–2011	I Pavlidis. “Remote human identification and intent determination from thermal imagery I”. <i>Funding from DOD</i>	\$21,000
2010–2011	I Pavlidis. “EAGER: Improving human engagement and enjoyment in routine activities”. <i>Funding from NSF</i>	\$159,068
2009–2010	I Pavlidis. “Spectral imaging sensor for improved biometric and human intent analysis I”. <i>Funding from DOD</i>	\$36,000

2008–2011	I Pavlidis. “Do Nintendo surgeons defy stress?”. <i>Funding from NSF</i>	\$478,285
2008–2011	S Huang, E Leiss, I Pavlidis, I Kakadiaris, R Verma. “REU Site: Research Experience for Undergraduates in computational science and cybersecurity”. <i>Funding from NSF</i>	\$310,001
2008–2010	I Pavlidis. “Advanced Thermal Action Coding System (TACS)”. <i>Funding from DOD</i>	\$502,249
2007–2010	I Pavlidis. “Co-design and testing of stress quantification experiments”. <i>Funding from Methodist Hospital</i>	\$199,021.2
2007–2008	I Pavlidis. “Thermal Imaging – A novel non-contact method to detect apnea/hypopnea during polysomnography”. <i>Funding from NIH</i>	\$50,000
2006–2008	I Pavlidis. “ATHEMOS – Advanced Technology Development”. <i>Funding from DOD</i>	\$556,073
2006–2007	I Pavlidis. “Efficacy of prototype credibility assessment technologies”. <i>Funding from DOD</i>	\$350,000
2006–2007	I Pavlidis. “Integrated CAI threat assessment”. <i>Funding from DOD</i>	\$292,702
2006–2007	I Pavlidis. “Hostile intent”. <i>Funding from DHS</i>	\$135,000
2005–2009	S Huang, E Leiss, I Pavlidis, I Kakadiaris, R Verma. “SCI: REU Site: Undergraduate Research Experience in computational science and cybersecurity”. <i>Funding from NSF</i>	\$270,434
2005–2008	G Zouridakis, I Pavlidis, M Garbey, I Kakadiaris. “MRI: Acquisition of a hybrid system and research infrastructure for large-scale integration of biomedical data”. <i>Funding from NSF</i>	\$900,001
2005–2007	I Pavlidis. “Detection research and development support”. <i>Funding from DHS</i>	\$79,828
2005–2006	I Pavlidis. “Thermal deception detection systems”. <i>Funding from DOD</i>	\$955,692
2005–2006	I Pavlidis. “Experimental thermal imaging systems”. <i>Funding from DHS</i>	\$586,683
2004–2008	I Pavlidis. “Interacting with human physiology”. <i>Funding from NSF</i>	\$640,169
2004–2005	I Pavlidis. “Biomedical imaging”. <i>Funding from Honeywell Inc.</i>	\$50,000
2004–2005	I Pavlidis. “Novel thermal imaging systems and methodologies for next generation polygraphy”. <i>Funding from DOD</i>	\$493,288
2003–2007	I Pavlidis. “Collaborative Research: Capacity expansion in information assurance”. <i>Funding from NSF</i>	\$201,949
2003–2005	I Pavlidis. “Thermal imaging experimentation and analysis for deception detection”. <i>Funding from DARPA</i>	\$99,482
2003–2005	I Pavlidis. “Thermal facial screening”. <i>Funding from DOD</i>	\$301,000

Papers in refereed journals

1. Pavlidis, I. T., Chaspari, T., & McDuff, D. (2023). Editorial: Special issue on unobtrusive physiological measurement methods for affective applications. *IEEE Transactions on Affective Computing*, 14(04), 2564–2566. <https://doi.org/10.1109/TAFFC.2023.3286769>
2. Petersen, A. M., Arroyave, F., & Pavlidis, I. (2023). Methods for measuring social and conceptual dimensions of convergence science. *Research Evaluation*. <https://doi.org/10.1093/reseval/rvad020>
3. Hasan, M. T., Alghamdi, H., Taamneh, S., Manser, M., Wunderlich, R., Tsiamyrtzis, P., & Pavlidis, I. (2023). Investigating cardiovascular activation of young adults in routine driving. *IEEE Transactions on Affective Computing*. <https://doi.org/10.1109/TAFFC.2023.3291330>
4. Yang, D., Pavlidis, Ioannis, & Petersen, A. M. (2023). Biomedical convergence facilitated by the emergence of technological and informatic capabilities. *Advances in Complex Systems*, 26(1). <https://doi.org/10.1142/S0219525923500030>
5. Pavlidis, I., Akleman, E., & Petersen, A. M. (2022). From polymaths to cyborgs - convergence is relentless. *American Scientist*, 110(4), 196–200.
6. Petersen, A. M., Ahmed, M. E., & Pavlidis, I. (2021). Grand challenges and emergent modes of convergence science. *Humanities and Social Sciences Communications*, 8(1). <https://doi.org/10.1057/s41599-021-00869-9>

7. Kazmi, M. A., Spitzmueller, C., Yu, J., Madera, J. M., Tsao, A. S., Dawson, J. F., & Pavlidis, I. (2021). Search committee diversity and applicant pool representation of women and underrepresented minorities: A quasi-experimental field study. *Journal of Applied Psychology*. <https://doi.org/10.1037/apl0000725>
8. Dukes, D. et al. (2021). The rise of affectivism. *Nature Human Behaviour*, 5(7), 816–820. <https://doi.org/10.1038/s41562-021-01130-8>
9. Pavlidis, I., Khatri, A., Buddharaju, P., Manser, M., Wunderlich, R., Akleman, E., & Tsiamyrtzis, P. (2021). Biofeedback arrests sympathetic and behavioral effects in distracted driving. *IEEE Transactions on Affective Computing*, 12(2), 453–465. <https://doi.org/10.1109/TAFFC.2018.2883950>
10. Panagopoulos, G., & Pavlidis, I. (2020). Forecasting markers of habitual driving behaviors associated with crash risk. *IEEE Transactions on Intelligent Transportation Systems*, 21(2), 841–851. <https://doi.org/10.1109/TITS.2019.2910157>
11. Majeti, D., Akleman, E., Ahmed, M. E., Petersen, A. M., Uzzi, B., & Pavlidis, I. (2020). Scholar Plot: Design and evaluation of an information interface for faculty research performance. *Frontiers in Research Metrics and Analytics*, 4, 6. <https://doi.org/10.3389/frma.2019.00006>
12. Zaman, S., Wesley, A., Silva, D. R. D. C., Buddharaju, P., Akbar, F., Gao, G., Mark, G., Gutierrez-Osuna, R., & Pavlidis, I. (2019). Stress and productivity patterns of interrupted, synergistic, and antagonistic office activities. *Scientific Data*, 6, 264. <https://doi.org/10.1038/s41597-019-0249-5>
13. Akbar, F., Mark, G., Pavlidis, I., & Gutierrez-Osuna, R. (2019). An empirical study comparing unobtrusive physiological sensors for stress detection in computer work. *Sensors*, 19(17), 3766.
14. Pavlidis, I., Garza, I., Tsiamyrtzis, P., Dcosta, M., Swanson, J. W., Krouskop, T., & Levine, J. A. (2019). Dynamic quantification of migrainous thermal facial patterns – a pilot study. *IEEE Journal of Biomedical and Health Informatics*, 23(3), 1225–1233. <https://doi.org/10.1109/JBHI.2018.2855670>
15. Pavlidis, I., Zavlin, D., Khatri, A. R., Wesley, A., Panagopoulos, G., & Echo, A. (2019). Absence of stressful conditions accelerates dexterous skill acquisition in surgery. *Scientific Reports*, 9(1), 1747.
16. Patten, C. A., Levine, J. A., Sinicrope, P. S., & Pavlidis, I. T. (2018). Exercise interventions for depressed smokers: The promise of community settings and robots. *Journal of Mental Health and Clinical Psychology*, 2(6), 1–5.
17. Gomez, J., Akleman, D., Akleman, E., & Pavlidis, I. (2018). Causality effects of interventions and stressors on driving behaviors under typical conditions. *Mathematics*, 6(8), 139.
18. Petersen, A. M., Majeti, D., Kwon, K., Ahmed, M. E., & Pavlidis, I. (2018). Cross-disciplinary evolution of the genomics revolution. *Science Advances*, 4(8), eaat4211.
19. Patten, C., Levine, J., Pavlidis, I., Balls-Berry, J., Shah, A., Hughes, C., Brockman, T., Soto, M. V., Witt, D., Koeppe, G., et al. (2018). Survey of potential receptivity to robotic-assisted exercise coaching in a diverse sample of smokers and nonsmokers. *PLOS ONE*, 13(5), e0197090.
20. Taamneh, S., Tsiamyrtzis, P., Dcosta, M., Buddharaju, P., Khatri, A., Manser, M., Ferris, T., Wunderlich, R., & Pavlidis, I. (2017). A multimodal dataset for various forms of distracted driving. *Scientific Data*, 4, 170110.
21. Albayrak, L., Khanipov, K., Pimenova, M., Golovko, G., Rojas, M., Pavlidis, I., Chumakov, S., Aguilar, G., Chávez, A., Widger, W. R., et al. (2016). The ability of human nuclear DNA to cause false positive low-abundance heteroplasmy calls varies across the mitochondrial genome. *BMC Genomics*, 17(1), 1017.
22. Pavlidis, I., Dcosta, M., Taamneh, S., Manser, M., Ferris, T., Wunderlich, R., Akleman, E., & Tsiamyrtzis, P. (2016). Dissecting driver behaviors under cognitive, emotional, sensorimotor, and mixed stressors. *Scientific Reports*, 6, 25651.
23. Semendeferi, I., Tsiamyrtzis, P., Dcosta, M., & Pavlidis, I. (2016). Connecting past with present: A mixed-methods science ethics course and its evaluation. *Science and Engineering Ethics*, 22(1), 251–274. <https://doi.org/10.1007/s11948-015-9626-4>
24. Petersen, A. M., Pavlidis, I., & Semendeferi, I. (2014). A quantitative perspective on ethics in large team science. *Science and Engineering Ethics*, 20(4), 923–945. <https://doi.org/10.1007/s11948-014-9562-8>
25. Pavlidis, I., Petersen, A. M., & Semendeferi, I. (2014). Together we stand. *Nature Physics*, 10(10), 700.
26. Zhou, Y., Tsiamyrtzis, P., Lindner, P., Timofeyev, I., & Pavlidis, I. (2013). Spatiotemporal smoothing as a basis for facial tissue tracking in thermal imaging. *IEEE Transactions on Biomedical Engineering*, 60(5), 1280–1289. <https://doi.org/10.1109/TBME.2012.2232927>
27. Shastri, D., Papadakis, M., Tsiamyrtzis, P., Bass, B., & Pavlidis, I. (2012). Perinasal imaging of physiological stress and its affective potential. *IEEE Transactions on Affective Computing*, 3(3), 366–378.
28. Pavlidis, I., Tsiamyrtzis, P., Shastri, D., Wesley, A., Zhou, Y., Lindner, P., Buddharaju, P., Joseph, R., Mandapati, A., Dunkin, B., et al. (2012). Fast by nature-how stress patterns define human experience and performance in dexterous tasks. *Scientific Reports*, 2, 305.

29. Manohar, C., McCrady, S., Fujiki, Y., Pavlidis, I., & Levine, J. (2011). Evaluation of the accuracy of a triaxial accelerometer embedded into a cell phone platform for measuring physical activity. *Journal of Obesity & Weight Loss Therapy*, 1(106).
30. Manohar, C., Crady, S. M., Fujiki, Y., Pavlidis, I., & Levine, J. (2010). Laboratory evaluation of the accuracy of a triaxial accelerometer embedded into a cell phone platform for measuring physical activity. *FASEB Journal*.
31. Fei, J., & Pavlidis, I. (2010). Thermistor at a distance: Unobtrusive measurement of breathing. *IEEE Transactions on Biomedical Engineering*, 57(4), 988–998. <https://doi.org/10.1109/TBME.2009.2032415>
32. Manohar, C., McCrady, S., Pavlidis, I. T., & Levine, J. A. (2009). An accelerometer-based earpiece to monitor and quantify physical activity. *Journal of Physical Activity and Health*, 6(6), 781–789.
33. Murthy, J. N., Jaarsveld, J. van, Fei, J., Pavlidis, I., Harrykissoon, R. I., Lucke, J. F., Faiz, S., & Castriotta, R. J. (2009). Thermal infrared imaging: A novel method to monitor airflow during polysomnography. *Sleep*, 32(11), 1521–1527.
34. Shastri, D., Merla, A., Tsiamyrtzis, P., & Pavlidis, I. (2009). Imaging facial signs of neurophysiological responses. *IEEE Transactions on Biomedical Engineering*, 56(2), 477–484. <https://doi.org/10.1109/TBME.2008.2003265>
35. Levine, J. A., Pavlidis, I. T., MacBride, L., Zhu, Z., & Tsiamyrtzis, P. (2009). Description and clinical studies of a device for the instantaneous detection of office-place stress. *Work*, 34(3), 359–364.
36. Fujiki, Y., Kazakos, K., Puri, C., Buddharaju, P., Pavlidis, I., & Levine, J. (2008). NEAT-o-Games: Blending physical activity and fun in the daily routine. *Comput. Entertain.*, 6(2), 21:1–21:22. <https://doi.org/10.1145/1371216.1371224>
37. Pavlidis, I., Dowdall, J., Sun, N., Puri, C., Fei, J., & Garbey, M. (2007). Interacting with human physiology. *Computer Vision and Image Understanding*, 108(1), 150–170. <https://doi.org/10.1016/j.cviu.2006.11.018>
38. Garbey, M., Sun, N., Merla, A., & Pavlidis, I. (2007). Contact-free measurement of cardiac pulse based on the analysis of thermal imagery. *IEEE Transactions on Biomedical Engineering*, 54(8), 1418–1426. <https://doi.org/10.1109/TBME.2007.891930>
39. Dowdall, J., Pavlidis, I. T., & Tsiamyrtzis, P. (2007). Coalitional tracking. *Computer Vision and Image Understanding*, 106(2), 205–219. <http://www.sciencedirect.com/science/article/pii/S107731420600186X>
40. Buddharaju, P., Pavlidis, I. T., Tsiamyrtzis, P., & Bazakos, M. (2007). Physiology-based face recognition in the thermal infrared spectrum. *IEEE Transactions on Pattern Analysis and Machine Intelligence*, 29(4), 613–626. <https://doi.org/10.1109/TPAMI.2007.1007>
41. Tsiamyrtzis, P., Dowdall, J., Shastri, D., Pavlidis, I. T., Frank, M. G., & Ekman, P. (2007). Imaging facial physiology for the detection of deceit. *International Journal of Computer Vision*, 71(2), 197–214. <https://doi.org/10.1007/s11263-006-6106-y>
42. Pollina, D. A., Dollins, A. B., Senter, S. M., Brown, T. E., Pavlidis, I., Levine, J. A., & Ryan, A. H. (2006). Facial skin Surface temperature changes during a “Concealed Information” Test. *Annals of Biomedical Engineering*, 34(7), 1182–1189. <https://doi.org/10.1007/s10439-006-9143-3>
43. Bebis, G., Gyaourova, A., Singh, S., & Pavlidis, I. (2006). Face recognition by fusing thermal infrared and visible imagery. *Image and Vision Computing*, 24(7), 727–742. <http://www.sciencedirect.com/science/article/pii/S0262885606000527>
44. Murthy, R., & Pavlidis, I. (2006). Noncontact measurement of breathing function. *IEEE Engineering in Medicine and Biology Magazine*, 25(3), 57–67. <https://doi.org/10.1109/MEMB.2006.1636352>
45. Morellas, V., Pavlidis, I., & Tsiamyrtzis, P. (2003). DETER: Detection of events for threat evaluation and recognition. *Machine Vision and Applications*, 15(1), 29–45. <https://doi.org/10.1007/s00138-003-0121-6>
46. Dowdall, J., Pavlidis, I., & Bebis, G. (2003). Face detection in the near-IR spectrum. *Image and Vision Computing*, 21(7), 565–578. [https://doi.org/10.1016/S0262-8856\(03\)00055-6](https://doi.org/10.1016/S0262-8856(03)00055-6)
47. Pavlidis, I., & Bhanu, B. (2003). Guest editorial: Special issue on computer vision beyond the visible spectrum. *Image and Vision Computing*, 21(7), 563–564.
48. Pavlidis, I., & Levine, J. (2002). Thermal image analysis for polygraph testing. *IEEE Engineering in Medicine and Biology Magazine*, 21(6), 56–64. <https://doi.org/10.1109/MEMB.2002.1175139>
49. Pavlidis, I., Eberhardt, N. L., & Levine, J. A. (2002). Human behaviour: Seeing through the face of deception. *Nature*, 415(6867), 35.
50. Pavlidis, I., Morellas, V., Tsiamyrtzis, P., & Harp, S. (2001). Urban surveillance systems: From the laboratory to the commercial world. *Proceedings of the IEEE*, 89(10), 1478–1497. <https://doi.org/10.1109/5.959342>
51. Levine, J. A., Pavlidis, I., & Cooper, M. (2001). The face of fear. *Lancet*, 357(9270), 1757–1757.
52. Pavlidis, I., Morellas, V., & Papanikolopoulos, N. (2000). A vehicle occupant counting system based on near-infrared phenomenology and fuzzy neural classification. *IEEE Transactions on Intelligent Transportation Systems*, 1(2), 72–85.

53. Bhanu, B., Pavlidis, I., & Hummel, R. (2000). Guest editorial: Special issue on computer vision beyond the visible spectrum. *Machine Vision and Applications*, 11(6), 265–266. <https://doi.org/10.1007/s001380050110>
54. Pavlidis, I., Symosek, P., Fritz, B., Bazakos, M., & Papanikolopoulos, N. (2000). Automatic detection of vehicle occupants: The imaging problem and its solution. *Machine Vision and Applications*, 11(6), 313–320. <https://doi.org/10.1007/s001380050116>
55. Levine, J., Baukol, P., & Pavlidis, I. (1999). The energy expended in chewing gum. *New England Journal of Medicine*, 341(27), 2100–2100.
56. Pavlidis, I., Papanikolopoulos, N. P., & Mavuduru, R. (1998). Signature identification through the use of deformable structures. *Signal Processing*, 71(2), 187–201. <http://www.sciencedirect.com/science/article/pii/S0165168498001443>
57. Pavlidis, I., Singh, R., & Papanikolopoulos, N. P. (1998). On-line handwriting recognition using physics-based shape metamorphosis. *Pattern Recognition*, 3(11), 1589–1600. <http://www.sciencedirect.com/science/article/pii/S0031320398000181>

Patents

1. Pavlidis, I. (2013). *Imaging facial signs of neuro-physiological responses* (Patent No. US8,401,261).
2. Pavlidis, I., & Morellas, V. (2006). *Cooperative camera network* (Patent No. US7,149,325).
3. Pavlidis, I., Bazakos, M. E., & Morellas, V. (2006). *Controlled environment thermal image detection system and methods regarding same* (Patent No. US7,138,905).
4. Pavlidis, I., & Levine, J. A. (2006). *System and method using thermal image analysis and slope threshold classification for polygraph testing* (Patent No. US7,111,980).
5. Pavlidis, I. (2006). *Near-infrared disguise detection* (Patent No. US7,076,088).
6. Pavlidis, I., & Dowdall, J. B. (2006). *Near-infrared method and system for use in face detection* (Patent No. US7,027,619).
7. Pavlidis, I. (2006). *Detection system and method using thermal image analysis* (Patent No. US6,996,256).
8. Pavlidis, I. (2005). *System and method using thermal image analysis for polygraph testing* (Patent No. US6,854,879).
9. Pavlidis, I., Symosek, P. F., & Fritz, B. S. (2004). *Near-IR human detector* (Patent No. US6,829,370).
10. Pavlidis, I., Symosek, P. F., & Fritz, B. S. (2004). *Near-infrared disguise detection* (Patent No. US6,718,049).
11. Pavlidis, I., Symosek, P. F., & Fritz, B. S. (2002). *Near-IR human detector* (Patent No. US6,370,260).

Papers in refereed conference proceedings

1. Kiran, F., Tolar, T., Wesley, A., Cirino, P., Tsiamyrtzis, P., & Pavlidis, I. (2023). Relatable and humorous videos reduce hyperarousal in math exams. *Proceedings of the 2023 Affective Computing and Intelligent Interaction Conference*.
2. Hasan, M. T., Zaman, S., Wesley, A., Tsiamyrtzis, P., & Pavlidis, I. (2023). Sympathetic activation in deadlines of deskbound research - A study in the wild. *Extended Abstracts of the 2023 CHI Conference on Human Factors in Computing Systems*. <https://doi.org/10.1145/3544549.3585585>
3. Huynh, T., Manser, M., & Pavlidis, I. (2021). Arousal responses to regular acceleration events divide drivers into high and low groups. *Extended Abstracts of the 2021 CHI Conference on Human Factors in Computing Systems*. <https://doi.org/10.1145/3411763.3451809>
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- Taamneh, S., Tsiamyrtzis, P., Dcosta, M., Buddharaju, P., Khatri, A., Manser, M., Ferris, T., Wunderlich, R., & Pavlidis, I. (2016). *SIMULATOR STUDY i - a multimodal dataset for various forms of distracted driving*. Open Science Framework. <https://doi.org/10.17605/osf.io/c42cn>

R scripts

- Hasan, M. T., Tsiamyrtzis, P., Alghamdi, H., & Pavlidis, I. (2023). *NUBI-Drive-1*. <https://github.com/UH-CPL/NUBI-DRIVE-1>
- Hasan, M. T., Tsiamyrtzis, P., & Pavlidis, I. (2023). *Sympathetic Activation in Deadlines Methods*. <https://github.com/UH-CPL/Sympathetic-Activation-in-Deadlines>

3. Huynh, T., & Pavlidis, I. (2021). *Accelarousal Study NAT1 Methods*. <https://github.com/UH-CPL/Accelarousal-Study-NAT1-Methods>
4. Ahmed, M. E., & Pavlidis, I. (2021). *Affectivism Code*. <https://github.com/UH-CPL/Affectivism-Code>
5. Zaman, S., Tsiamirtzis, P., & Pavlidis, I. (2020). *CHI 2020 Displayed Emotions Methods*. <https://github.com/UH-CPL/CHI20-Displayed-Emotions-Methods>
6. Zaman, S., & Pavlidis, I. (2019). *Office Tasks 2019 Methods*. <https://github.com/UH-CPL/Office-Tasks-2019-Methods>
7. Panagopoulos, G., & Pavlidis, I. (2019). *Machine Learning Methods for Distracted and Aggressive Driving*. <https://georgepanagopoulos.shinyapps.io/ForecastRoadBehavior/>

Software

1. Buddhharaju, P., & Pavlidis, I. (2019). *S-Interface Software in figshare*. https://figshare.com/articles/S-Interface_Software/8847683
2. Majeti, D., Emtiaz, M. E., & Pavlidis, I. (2019). *Scholar plot (Version 2.0) [Computer software]*. <http://scholarplot.org>

Select invited and keynote talks

- Invited speaker, *Universal monitoring of driving risk via physiology*, Department of Comparative Cultural Psychology, Max Planck Institute for Evolutionary Anthropology, Leipzig, Germany, November 2023.
- Invited speaker, *Universal monitoring of driving risk via physiology*, Department of Biomedical Engineering, University of Houston, Houston, Texas, October 2023
- Keynote speaker, *FoF - It is the 'fight or flight' stupid!*, Sixth International Workshop on Computer Vision for Physiological Measurement (CVPM), Vancouver, Canada, June 2023.
- Keynote speaker, *A humanizing look at engineering ethics through time*, Engineering Technology Conference, Houston, Texas, April 2023.
- Invited speaker, *How hard are research deadlines?*, University of California-Merced, Merced, California, February 2023.
- Invited speaker, *Hidden micro-stressors: it's the little things that count*, Conference on Advances in Data Science: Theory, Methods, & Computation, Texas A&M University, College Station, Texas, October 2022.
- Invited speaker, *Hidden micro-stressors: it's the little things that count*, Department of Biomedical Engineering, University of Houston, Houston, Texas, October 2022.
- Invited speaker, *Affect and consequences in L2 vehicle driving*, Institute for Computer Science, Crete, Greece, June 2022.
- Invited speaker, *Affect and consequences in L2 vehicle driving*, University of Pittsburgh, Pennsylvania, June 2022.
- Invited speaker, *Behavioral predictors of funding success for U.S. researchers*, University of Houston Drug Discovery Institute, Texas, October 2021.
- Invited speaker, *Behavioral predictors of funding success for U.S. researchers*, Department of Biomedical Engineering, University of Houston, Texas, October 2021.
- Invited speaker, *Accelarousal - a lurking chronic stressor*, Department of Biomedical Engineering, University of Houston, Houston, Texas, April 2021.
- Keynote speaker, *A naturalistic pilot study of accelarousal*, Virtual Workshop on 'Wire-free, multi-modal non-contact physiological sensing and monitoring', April 2021.
- Keynote speaker, *The distraction epidemic*, 2020 Ken Kennedy Institute Data Science Conference, Houston, Texas, October 2020.
- Invited speaker, *Emotional footprints of email interactions*, Department of Biomedical Engineering, University of Houston, Houston, Texas, October 2020.
- Invited speaker, *From genomics to brain science: What makes researchers tick in transdisciplinary initiatives*, SciSIP Grantee Workshop, Atlanta, Georgia, October 2019.
- Invited speaker, *Dissecting driver behaviors under cognitive, emotional, sensorimotor, and mixed stressors*, Department of Electrical and Computer Engineering, Democritus University of Thrace, Xanthi, Greece, October 2018.
- Invited speaker, *Dissecting driver behaviors under distracting stressors*, Texas A&M Transportation Technology Conference, College Station, Texas, May 2017.
- Invited speaker, *Dissecting driver behaviors under cognitive, emotional, sensorimotor, and mixed stressors*, Department of Computer Science and Engineering, University of Michigan, Ann Arbor, Michigan, April 2017.
- Keynote speaker, *Deception detection in the 2000s*, ACM Workshop on Multimodal Deception Detection - WMDD 2015, Seattle, Washington, November 2015.

- Invited speaker, *Unobtrusive and continuous monitoring of physiological variables with applications*, Nutrition Obesity Research Center, University of Alabama at Birmingham, Birmingham, Alabama, October 2014.
- Invited speaker, *Facial emotion processing*, Society for Affective Sciences, Bethesda, Maryland, April 2014.
- Invited speaker, *Beware of sympathetic looping in surgery and beyond*, Media Labs, MIT, Cambridge, Massachusetts, November 2013.
- Invited speaker, *Beware of sympathetic looping in surgery and beyond*, National Institute of Standards, Gaithersburg, Maryland, October 2013.
- Invited speaker, *Beware of sympathetic looping in surgery and beyond*, Methodist Institute for Technology, Innovation, and Education, Houston, Texas, September 2013.
- Invited Speaker, *Fast by nature – How stress patterns define human experience and performance*, College of Engineering, Texas A&M University, College Station, Texas, September 2013.
- Invited speaker, *Fast by nature – How stress patterns define human experience and performance*, Digital Technology Center, University of Minnesota, Minneapolis, Minnesota, April 2013.
- Invited speaker, *Fast by nature – How stress patterns define human experience and performance*, Department of Electrical Engineering, University of California-Riverside, Riverside, California, April 2013.
- Invited speaker, *Fast by nature – How stress patterns define human experience and performance*, Department of Computer and Information Sciences, Rutgers University, Piscataway, New Jersey, March 2013.
- Invited speaker, *Fast by nature – How stress patterns define human experience and performance*, IBM T.J. Watson Research Center, Yorktown Heights, New York, March 2013.
- Invited speaker, *Fast by nature – How stress patterns define human experience and performance*, Centre Inter-facultaire en Sciences Affectives, University of Geneva, Geneva, Switzerland, June 2012.
- Invited speaker, *Fast by nature – How stress patterns define human experience and performance*, Department of Computer Science and Engineering, University of North Texas, Denton, Texas, May 2012.
- Keynote speaker, *Quantitative Stress Measurement and Procedural Competence*, 4th Annual American College of Surgeons Accredited Educational Institutes Postgraduate Course, Houston, Texas, September 2011.
- Invited speaker, *Fast by nature – How stress patterns define human experience and performance*, Department of Electrical and Computer Engineering, Old Dominion University, Norfolk, Virginia, December 2010.
- Keynote speaker, *A novel way to conduct human studies and do some good*, 4th IGT-University of Nevada Engineering Symposium, Reno, Nevada, May 2010.
- Keynote speaker, *Imaging stress*, 4th International Symposium on Visual Computing, Las Vegas, Nevada, December 2008.
- Invited speaker, *From DNA to facial expressions: Detecting stress phenotypes and genotypes*, Futures Conferences on Personalized Medicine, The Golf Coast Consortia, A Joint Program of Rice University, Baylor College of Medicine, University of Houston, University of Texas Medical Branch at Galveston, and University of Texas M.D. Anderson Cancer Center, Houston, Texas, June 2008.
- Invited speaker, *Computing stress*, Computer Science Department, Texas A&M University, College Station, Texas, April 2008.
- Invited Speaker, *Virtual thermistor*, M.D. Anderson Cancer Center, Houston, Texas, February 2008.
- Invited speaker, *Looking through the human face*, University of Technology Sydney, Sydney, Australia, November 2006.
- Invited speaker, *Looking through the human face*, IBM T.J. Watson Research Center, Yorktown Heights, New York, June 2006.
- Invited speaker, *Interacting with human physiology*, Computer Science Department, Texas A&M University, College Station, Texas, October 2005.
- Invited speaker, *Interacting with human physiology*, Keck Seminar at Rice University, Houston, Texas, February 2005.
- Invited speaker, *Estimation of pulse, blood flow rate, and vessel location from thermal video*, Computer Science Department, University of Pennsylvania, Philadelphia, Pennsylvania, February 2004.
- Invited speaker, *The Computer as a guardian angel*, Electrical and Computer Engineering Department, Democritus University, Xanthi, Greece, June 2003.
- Invited speaker, *Thermal facial screening*, Oregon Health Sciences University, Beaverton, Oregon, February, 2002.
- Invited speaker, *Thermal facial screening*, University of Nevada at Reno, Reno, Nevada, December, 2001.
- Invited speaker, *Thermal facial screening*, Arizona State University, Tempe, Arizona, November, 2001.
- Invited speaker, *Deception detection*, (jointly with Dr. J. Levine), Defense Advanced Research Projects Agency (DARPA), Washington D.C., October 2001.
- Invited speaker, *Detection of Events for Threat Evaluation and Recognition: DETER*, Wright State University, Dayton, Ohio, August 2001.

- Invited speaker, *Thermal facial screening*, Mayo Graduate School of Medicine, Rochester, Minnesota, August 2001.
- Invited speaker, *Video-based monitoring and surveillance: From the laboratory to the commercial world*, Philips Research Laboratories, Briarcliff Manor, New York, March 2001.
- Invited speaker, *Detecting tumors, physiological state, human faces, and activity patterns*, Department of Electrical and Computer Engineering, San Diego State University, San Diego, California, December 2000.
- Invited speaker, *Automatic detection and counting of passengers in the High Occupancy Vehicle (HOV) lane*, Department of Computer Science, Georgetown University, Washington D.C., March 1999.
- Invited speaker, *Modeling of remotely sensed data for military and civilian applications*, Department of Electrical and Computer Engineering, San Diego State University, San Diego, California, January 1998.

Advisees

I currently supervise five Ph.D. students. I have previously graduated another 21 Ph.D. students and 12 M.S. thesis students. I have also supervised 6 postdoctoral researchers. My doctoral advisees have either become successful academics or hold senior positions in the high-tech industry. The doctoral alumni list follows.

MD Tanim Hasan	Ph.D.	2023	Freshly Minted	Freshly Minted
Vitalii Zhukov	Ph.D.	2023	Freshly Minted	Freshly Minted
Shaila Zaman	Ph.D.	2022	Senior Scientific Programmer	Baylor College of Medicine
Mohammed Emtiaz Ahmed	Ph.D.	2020	Data Scientist	Ford Motor Company
Dinesh Majeti	Ph.D.	2018	Senior Software Engineer	Teradata
Ashik Khatri	Ph.D.	2018	Director	Glowderma
Kamil Khanipov	Ph.D.	2018	Assistant Professor	University of Texas Medical Branch
Muhsin Zahid Ugur	Ph.D.	2017	Assistant Professor	University of Health Sciences - Turkey
Salah Taamneh	Ph.D.	2016	Associate Professor	Hashemite University - Jordan
Karl Kwon	Ph.D.	2016	Engineering Lead	MITRE
Malcolm Dcosta	Ph.D.	2015	Associate Professor	Elizabeth City State University
Avinash Wesley	Ph.D.	2015	Senior Data Scientist	WESCO Distribution
Ilyas Uyanik	Ph.D.	2014	Senior iOS Developer	Diem Association
Yan Zhou	Ph.D.	2011	Data Scientist	Consultant
Yuichi Fujiki	Ph.D.	2011	Senior Software Engineer	ShopBack
Zhen Zhu	Ph.D.	2008	Solution Designer	Insperty
Pradeep Buddharaju	Ph.D.	2007	Associate Professor	University of Houston - Clear Lake
Dvijesh Shastri	Ph.D.	2007	Professor	University of Houston - Downtown
Jin Fei	Ph.D.	2007	Senior Data Scientist	Amazon Web Services
Jonathan Dowdall	Ph.D.	2007	Engineer	Google X
Nanfei Sun	Ph.D.	2006	Assistant Professor	University of Houston - Clear Lake

My postdoctoral advisees have become successful academics. The postdoctoral alumni list follows.

Malcolm Dcosta	Postdoc	2016	Associate Professor	Elizabeth City State University
Peggy Lidner	Postdoc	2012	Assistant Professor	University of Houston
Dvijesh Shastri	Postdoc	2011	Professor	University of Houston - Downtown
Pradeep Buddharaju	Postdoc	2011	Associate Professor	University of Houston - Clear Lake
Mahos Bourlai	Postdoc	2009	Associate Professor	University of Georgia
Arcangelo Merla	Postdoc	2004	Professor	University of Chieti - Italy

My M.S. thesis advisees have become either successful academics or technical leaders in the industry. The M.S. thesis alumni list follows.

Tung Huynh	M.S.	2020	ML Software Engineer	SEEDCOM
George Panagopoulos	M.S.	2018	Applied Scientist	Amazon
Ashik Khatri	M.S.	2015	Director	Glowderma
Karl Kwon	M.S.	2015	Engineering Lead	MITRE
Eswar Prasad	M.S.	2013	Program Manager	Alstom
Malcolm Dcosta	M.S.	2011	Associate Professor	Elizabeth City State University
Swati Vaidya	M.S.	2011	Senior Project Manager	Amdocs
Avinash Wesley	M.S.	2010	Senior Data Scientist	WESCO Distribution

Pradeep Buddharaju	M.S.	2005	Associate Professor	University of Houston - Clear Lake
Colin Puri	M.S.	2005	Research Principal	Accenture
Chinmay Manohar	M.S.	2004	Global Digital Health Business Leader	Genentech
Ramya Murthy	M.S.	2004	Senior Software Engineer	Petroleum Geo-Services

Editorship/Chairmanship

2021–2024	Editorial Board , <i>Frontiers in Psychology</i>
2022–2024	Editorial Board , <i>Scientific Data</i>
2019–2024	Editorial Board , <i>Scientific Reports</i>
2008–2009	Editorial Board , <i>Image and Vision Computing</i>
2001–2006	Editorial Board , <i>Pattern Analysis and Applications</i>
2017–	Program Chair , <i>17th IEEE International Symposium on Bioinformatics and Bioengineering (BIBE 2017)</i>
2011–	Industrial Chair , <i>6th International Conference on Functional Imaging and Modeling of the Heart</i>
2010–	Industrial Chair , <i>11th European Conference on Computer Vision (ECCV 2010)</i>
2009–	Honorary Chair , <i>IEEE International Conference on Advanced Video and Signal Based Surveillance (AVSS 2009)</i>
2008–	Program Chair , <i>IEEE International Conference on Advanced Video and Signal Based Surveillance (AVSS 2008)</i>
2007–	Industrial Chair , <i>11th IEEE International Conference on Computer Vision (ICCV 2007)</i>
2006–	Program Chair , <i>IEEE International Conference on Advanced Video and Signal Based Surveillance (AVSS 2006)</i>
2005–	Honorary Chair , <i>IEEE International Conference on Advanced Video and Signal based Surveillance (AVSS 2005)</i>
2003–	Founding Chair , <i>IEEE International Conference on Advanced Video and Signal Based Surveillance (AVSS 2003)</i>
2001–	Program Chair , <i>2nd IEEE International Symposium on Bioinformatics and Bioengineering (BIBE 2001)</i>

Review panels in funding agencies

2023-2019 2017 2012-2010 2008 2004-2003	Panelist , <i>National Science Foundation (NSF)</i>
2019 2015-2013 2011	Panelist , <i>National Institutes of Health (NIH)</i>

Advisory boards

- Member of the IPSEN Foundation Board [<https://www.fondation-ipsen.org>] (2018–2023).
- Member of the Clair Labs Advisory Board [<https://www.clairlabs.com>] (2019–2020).

Current memberships

- IEEE Fellow, Institute of Electrical and Electronics Engineers (IEEE)
- Member, Association for Computing Machinery (ACM)

Consulting

- I have served as a consultant to Honeywell Inc. and FLIR Systems Inc.

Academic committees

2023–2025	Member , <i>Department of Computer Science - Faculty Search Committee</i>
2012–2024	Member , <i>University of Houston - Conflict of Interest Committee</i>
2016–2018	Member , <i>College of Natural Sciences and Mathematics - Promotion and Tenure Committee</i>
2015–2018	Chair , <i>Department of Computer Science - Promotion and Tenure Committee</i>
2015–2016	Member , <i>University of Houston - Scientific Misconduct Committee</i>
2013–2016	Member , <i>Department of Computer Science - Faculty Search Committee</i>
2010–2014	Member , <i>College of Natural Sciences and Mathematics - Promotion and Tenure Committee</i>
2009–2010	Chair , <i>Department of Computer Science - Faculty Search Committee</i>
2009–2010	Member , <i>Department of Computer Science - Graduate Studies Committee</i>
2006–2013	Member , <i>Department of Computer Science - Promotion and Tenure Committee</i>
2004–2006	Chair , <i>Department of Computer Science - Faculty Search Committee</i>
2003–2004	Member , <i>Department of Computer Science - Curriculum Committee</i>

Teaching

- I have established two innovative and highly successful courses in the Department of Computer Science at the University of Houston: Ubiquitous Computing [undergraduate level], and Statistical Methods in Research

[graduate level]. Each of the courses enrolls about 50 students. The web site of the said courses can be accessed at: <https://www.cpl.uh.edu/index.php/courses>. Public feedback from class students can be found at Rate My Professors [<https://www.ratemyprofessors.com/ShowRatings.jsp?tid=1736447>].