# Research profile (bird's eye view)

*KC Santosh, PhD, IEEE Senior Member*
*Associate Professor* (Promoted April 04, 2020, effective from SU 2020)
*Graduate Program Director*
*Department of Computer Science, University of South Dakota*
*Email: santosh.kc@ieee.org*

**Research Areas:** Artificial Intelligence, Machine Learning, Computer Vision, Signal Processing, Pattern Recognition, Data Mining, Information Retrieval, and Big Data

**Terminal Degree:** PhD in Computer Science (2011), Specialized in Machine Learning and Artificial Intelligence
**Post-Doc:** 2 years
**Research Scientist/Fellow:** 2+ years (NIH)

**Publications** (Total = 154 research papers + 4 books, Cumulative Impact factor = 115+):
1) *Books (authored/edited):* 4 (authored = 2; and edited/partially authored = 2)
2) *Journal articles (peer-reviewed):* 66 (plus 9 are under review)
3) *Conference proceedings (peer-reviewed):* 81 (plus 12+ are under review)
4) *Book chapters:* 7
5) *Research talks (invited talks):* 42 (additional 4 are confirmed till Fall 2019)

**Research impact** (*Google Scholar,* April 01, 2020)
Total citations = 1500, h-index = 23, and i-10 = 48

**Awards (major):**
1) *The President's Research Award*, USD: New/Mid-career Faculty (*2019*)
2) *Office of Research and Sponsored Programs: Undergrad Research Award (2018, 2019)*
3) *US Department of Health and Human Services (HSS) Ignite Award (2014)*
4) *Professor of the Game, Academic Affairs, USD (2018, 2019)*
5) *IEEE Senior Member (2018)*
6) *Best Paper Awards (5 times)*

**Research thesis advising:**
7) *PhD thesis:* Co-advisor = 2; External examiner = 6; and Committee member = 1
8) *MS/MA thesis:* Advisor = 9; and Committee member = 10
9) *Honors thesis:* Committee member = 2

**Grantsmanships:**
1) *External grants:* IEEE Computer Society = 1 (PI); SDCRGP = 1 (collaborator); Gov. sub-way grant = 1 (collaborator); Department of Education = 1 (Director, robotics); Asian Office of Aerospace Research and Development (AOARD) = 1 (co-PI, under review); and NSF = 2 (co-PI and Senior scientist, under review)
2) *Local/university grants:* 9

**Services (professional):**

1) *Editor-In-Chief:* 1 journal
2) *Associate editor:* 5 journals
3) *Guest editor:* 10 journals
4) *Editorial board:* 11 journals
5) *Conference chair (general chair, 2 and program chair, 10):* 12
6) *Conference organizer:* 5 (international)
7) *Proceedings editor:* 4, Springer Nature
8) *Program committee (conferences):* 20
9) *Grant review panelist:* NSF, NSERC (Canada), Mitacs (Canada), and Medical Research Council Grant (MRC, UK)
10) *IEEE Computer Society Chair (region 4)*

**Professional membership:**
1) *IEEE Senior Member*
2) *IEEE Computer Society*
3) *Association for Computing Machinery*

**Collaborations (continent-wise):**
1) <u>*North America:*</u> National Institutes of Health (NIH), Mayo Clinic Center (Rochester), Minnesota State University, University of North Dakota, Central Washington State University, University of Maryland, East Carolina University, University of California Los Angeles, Ohio State University, Depaul University (Chicago), University of Chicago Medicine, and Wichita State University (just to name primary ones).
2) <u>*Europe:*</u> a) France: Universite de Paris Descartes, Universite de Lorraine, INRIA Nancy Grand Est Research Center, ITESOFT, Universite Clermont Auvergne, Universite de La Rochelle; b) Sweden: Halmstad University; c) Malta: University of Malta; d) Spain: Univertat de Autonoma; e) Italy: Universidade de Roma; and f) UK: University of Essex, University of Reading
3) <u>*Asia:*</u> a) Malaysia: Taylors University; b) India: Indian Statistical Institute (ISI) Kolkata, West Bengal State University, Jadavpur University, Aliah University, Indian Institute of Technology (IIT) Roorkee, MGM's college of Health Sciences, Mumbai, MGM's college of Computer Science and Engineering; and c) Nepal: Pokhara University, Tribhuwan University.


**Note:** A complete CV is available upon request. More detailed information can be found at http://kc-santosh.org