Points of Pride

Ohio State CSE alumni worldwide
7,900+

Computer Science and Engineering is the fastest growing department within the College of Engineering

Degrees conferred
- 20 PhD
- 88 Masters
- 383 Bachelors
(Summer 2018 - Spring 2019)

Graduate enrollment

<table>
<thead>
<tr>
<th>Year</th>
<th>Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>2018-2019</td>
<td>75</td>
</tr>
<tr>
<td>2017-2018</td>
<td>106</td>
</tr>
<tr>
<td>2016-2017</td>
<td>108</td>
</tr>
<tr>
<td>2015-2016</td>
<td>101</td>
</tr>
<tr>
<td>2014-2015</td>
<td>100</td>
</tr>
</tbody>
</table>

Undergraduate students

<table>
<thead>
<tr>
<th>Year</th>
<th>Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>2018-2019</td>
<td>347</td>
</tr>
<tr>
<td>2017-2018</td>
<td>343</td>
</tr>
<tr>
<td>2016-2017</td>
<td>258</td>
</tr>
<tr>
<td>2015-2016</td>
<td>276</td>
</tr>
<tr>
<td>2014-2015</td>
<td>316</td>
</tr>
</tbody>
</table>

The B.S. in Software Engineering Program in both CSE and ECE continues to grow with enrollment management in place.

From the Chair

Dear CSE Alumni, Students, Parents, Friends, and Colleagues,

This Autumn 2019 we are adding 5 new tenure track faculty—Michael G. Kalath, Nakheel R. Williams, Alex Lewis, Michael A. Cohn, and Chris D. Brown—to the faculty. This is the first year of the 4-year process of hiring new faculty in Computer Science & Engineering departments without much difficulty. The reason? The field is now attracting more students, giving the faculty the time to prepare the department for the future.

One of the revenue sources for the department is the IDC scholarship. This year, the College of Engineering has included the Director of Engineering (EDC) grant, which is a state grant that supports the recruitment of faculty. The College advancement team in collaboration with us has launched a campaign to this effect. Our departmental webpage contains information about some of these efforts. I am hopeful that our alumni and well-wishers will continue to make a difference.

I briefly lay out what those opportunities are, what we have done so far, and what we can possibly do.

I am sure that "computing" will continue to take the center stage in the sphere of today's life. Computer Science is going through a time when the field is experiencing a phenomenal growth. Nonetheless, as I slowly immersed myself in the role, I found preparation was a little overwhelming for in the beginning.

One of the areas I addressed was the growth of computer science and engineering enrollment that exceeds 2,600 CSE, CIS and Computer Science majors. Finding proper and sufficient resources with the available resources is a priority for me. In this respect, determining those opportunities and aligning then with the Department and College's goals and can be realized transformative changes, which bring opportunities along with challenges. Determining those opportunities and aligning then with the available resources is a priority for me. In this respect, determining those opportunities and aligning then with the Department and College's goals and can be realized transformative changes, which bring opportunities along with challenges.

The Ohio State University and all of you we will continue to celebrate its 50 years of contributions and service to the society in general. We are training the future workforce for the digital age with recognition some of which are highlighted in this annual report. Some of the recognition include the NSF Career Awards of Thomas F. SIGAL and Thomas Berger-Wolf and 2 Clinical track faculty—Thomas Bihari and Wei Lun Chao, Pooya Hatami, Yu Su, Sailesh Bojja, Tanya-...
Three CSE members awarded The Lumley Engineering Research Award

Three Ohio State researchers—crucial teaching College of Engineering faculty—have been selected as 2019 Lumley scholars. The Lumley Engineering Research Award is a highly competitive award that recognizes outstanding teaching, research and outreach achievements. Three CSE members are among the 14 awardees, making up nearly 1/3 of the winners this year.

The last few years have seen tremendous growth in machine learning and its applications to societal challenges. The Lumley Engineering Research Award honorees are currently a vanguard of researchers trying to solve complex global problems with data.

CSE's own Dr. Arnab Nandi was selected as one of the 40 for the year. His research, which is focused on developing new computational techniques for massive simulated data, has been driven by the need to keep pace with the rate of technological change. Dr. Nandi leads the Computational Fluid Dynamics Research Laboratory (CFDRL), a group that develops high-performance computing methods for simulating fluid mechanics.

The Lumley Research Awards honor the work of ten of the leading researchers in their fields, including mathematicians, scientists and engineers. The winners are an elite group who have demonstrated exceptional activity and influence in the university's research mission.

Three CSE members—Professor Mikhail Belkin, Professor Wei-Lun (Harry) Chao and Associate Professor Alan Ritter—were selected as Lumley awardees.

Belkin specializes in the theoretical aspects of machine learning, which is to the computer science community what Newton’s laws are to the physics community. His research, for example, may show that a method that converges rapidly to a local minimum can be unstable, and can have poor performance on unseen data.

Chao focuses on developing deep learning algorithms and models, such as convolutional neural networks, with applications in computer vision and autonomous driving. His work is valuable in the rapidly evolving world of artificial intelligence, and has been acknowledged by the Lumley Award.

Ritter is an expert in computer vision and machine learning, focusing on natural language processing and the way computer systems can learn to understand human language. He has been involved in the development of computer vision software for autonomous vehicles, and has been recognized for his work in this field.

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