BINUS UNIVERSITY
School of Computer Science

ROAD TO 45 YEARS BINUS CONNECTING THE INTELLIGENT SOCIETY

GOOD NEWS

from SCHOOL OF COMPUTER SCIENCE

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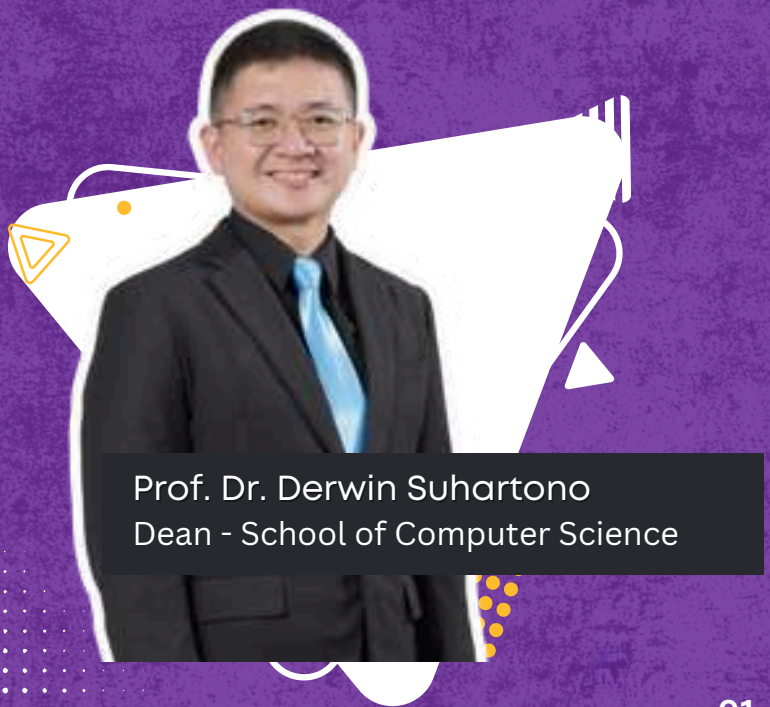
Dean's Welcome

Dear readers,

Welcome to the latest edition of the School of Computer Science bulletin!

At BINUS University, we are dedicated to cultivating an environment where innovation, collaboration, and academic excellence empower students to become global technology leaders.

In this edition, we proudly highlight S-Class, an elite and highly selective academic program within our Computer Science undergraduate program. Designed for students who demonstrate outstanding academic performance and strong potential for advanced achievement, S-Class goes beyond the standard curriculum by offering an enriched learning experience that emphasizes academic rigor, competitive excellence, research engagement, and innovative product development.



Prof. Dr. Derwin Suhartono
Dean - School of Computer Science

Beyond the S-Class journey, this bulletin also showcases a wide range of accomplishments across our School—from student-led innovations and faculty research to impactful collaborations with industry and global partners. These stories reflect our shared vision of building a learning ecosystem that seamlessly bridges academic excellence with real-world application.

I would like to express my sincere appreciation to the editorial team, contributors, faculty members, students, and partners who made this bulletin possible. We hope the stories within will inform, inspire, and ignite curiosity—showcasing the forward-thinking culture and pursuit of excellence that define the School of Computer Science at BINUS University.

Finally, I extend my heartfelt gratitude to our valued partners for your continued trust, collaboration, and support. Your engagement through joint initiatives, industry projects, mentorship, and knowledge exchange plays a vital role in strengthening our ecosystem and creating meaningful impact. We look forward to deepening our partnerships and building even more impactful collaborations in the future.

Best Regards

BINUS University Earns Triple Recognition at **Anugerah Diktisaintek 2025**

BINUS University achieved remarkable recognition at the Anugerah Diktisaintek 2025 awards, a prestigious national recognition for advancing higher education, research, and innovation highlighting its commitment to excellence in higher education and institutional performance. At the prestigious event held in Jakarta on December 19, 2025, BINUS University won three major awards recognizing its strengths in international collaboration, data governance, and institutional performance among large universities.

BINUS was honored as the Gold Winner in the Best International Collaboration category, acknowledging its successful strategic partnerships and global engagement. Additionally, BINUS received the Silver Winner award for PDDikti data reporting in the category of universities with more than 10,000 students, and secured third place in the Institutional Key Performance Indicators (IKU) category for private universities with large student populations. These accolades were received by BINUS University's Rector, Dr. Nelly, S.Kom., M.M., during the official award ceremony

These achievements underscore BINUS University's consistent efforts to strengthen institutional governance, develop a globally adaptive academic ecosystem, and expand strategic collaborations at both national and international levels. By prioritizing quality education, effective data management, and impactful partnerships, BINUS continues to reinforce its role as a leading world-class university contributing meaningfully to Indonesia's higher education landscape and beyond

Call for Papers: **ICCSCI 2026**

BINUS SoCS Students Win **Silver Medal** at ICPC **Asia Manila Regional Contest 2025**

Students from the School of Computer Science (SoCS) at BINUS University achieved an outstanding international accomplishment through Jollybee Team at the ICPC Asia Manila Regional Contest 2025. Competing against top university teams from across the Asia region, Team Jollybee successfully secured a Silver Medal, demonstrating exceptional skills in algorithmic thinking, problem solving, and teamwork in one of the world's most prestigious competitive programming contests.

Jollybee team, consisting of Emmanuel Candra Sulistiawan, Christoffer Edbert Karuniawan, and Jonathan Tandiwan, who are Computer Science students from BINUS University, Kemanggisan Campus, under the guidance of Coach Lie Maximilianus Maria Kolbe, reflects the strong academic and competitive training fostered by BINUS SoCS. This achievement reinforces BINUS University's reputation for excellence in computer science education and highlights SoCS's commitment to developing globally competitive talent capable of excelling on the international stage.

This achievement highlights the effectiveness of BINUS SoCS's academic environment and intensive training in nurturing world-class computing talent. The Silver Medal at ICPC Asia Manila 2025 further strengthens BINUS University's reputation in international competitive programming and affirms SoCS's commitment to producing graduates who can compete and excel at the global level.

Empowering Future Innovators: **The S-Class** Excellence Program at BINUS University

S Class is an elite and highly selective academic program within the Computer Science undergraduate program at BINUS University, created for students who show outstanding academic performance and strong potential for advanced achievement. Designed to go beyond the standard curriculum, S-Class provides an enriched learning environment that emphasizes excellence through competitions, research, and innovative product development.

Admission to S-Class is strictly limited, with each cohort consisting of up to 35 top-performing students selected based on academic achievement, competition experience, and overall potential. The name “S-Class” represents the highest level of excellence, symbolizing superior performance and distinction within competitive academic systems.

Students in S-Class receive structured development through intensive weekly training sessions held every Friday, alternating between advanced technical skill training and soft-skill development such as leadership, communication, teamwork, and problem-solving. Achievements gained from competitions, research, and product development can be converted into academic credits, providing both recognition and flexibility within the degree program.

The program also offers access to scholarships, exclusive workshops, seminars, bootcamps, and premium networking opportunities with faculty mentors, industry practitioners, and high-achieving peers. Operating at BINUS Kemanggisan and BINUS Alam Sutera campuses, S-Class supports students across key computing domains—including competitive programming, research, cybersecurity, product development, and game development—preparing them to excel academically, professionally, and competitively at national and international levels.

Dr. Mochammad Haldi Widianto

Advancing Intelligent Systems Through Computer Vision, IoT, and Agile Development and Network Engineering

Dr. Mochammad Haldi Widianto is a researcher and lecturer at the School of Computer Science @ Bandung Campus, BINUS University, whose work centers on the development of intelligent, connected, and data-driven systems. His research interests span computer vision, artificial intelligence, Internet of Things (IoT), network engineering, and agile software development, reflecting a strong orientation toward applied research that addresses practical challenges across multiple domains.

A significant part of Dr. Widianto's scholarly work focuses on the application of AI and IoT in smart environments. His highly cited research on artificial intelligence for smart farming examined current AI trends and their potential to enhance crop yield through intelligent agricultural systems. Complementing this, his applied research on sensor-based automation using Arduino platforms demonstrated effective implementation of embedded systems and IoT technologies in real-world scenarios.

Beyond AI and IoT, Dr. Widianto has explored emerging technologies such as blockchain and digital platforms. His research includes smart contracts for digital certificates using non-fungible tokens (NFTs) on the Solana network for secure and verifiable credential management. In software engineering, he has developed web-based information systems using a structured, phase-oriented development lifecycle to ensure reliability and maintainability in enterprise applications, and studied Telegram-based chatbot learning media to support programming education and digital learning delivery.

Scopus
bit.ly/MHWidiantoScopus

In addition to his research activities, Dr. Widianto is actively involved in teaching and mentoring at BINUS University, supporting students and early-career researchers in applying computer science concepts to practical and emerging technological contexts.

STUDENT ACHIEVEMENT

Game Application & Technology Students from BINUS SoCS Showcase Innovation at **PAX Australia 2025**

Students from the Game Application & Technology program at BINUS University's School of Computer Science (SoCS) achieved international recognition by being selected as exhibitors at PAX Australia 2025, a major global gaming festival held at the Melbourne Convention and Exhibition Centre from 10–12 October 2025. This opportunity came after they won the Excellence in International Award at the GameXcellence Award 2025, underscoring the quality and competitiveness of Indonesian student game development on the world stage.

The representatives from BINUS University at PAX Australia 2025 were David Drago and Justin Tjokro, both talented students from the Game Application & Technology program. They were intensively guided and supported by their academic supervisor, Dimas Ramdhan, S.Kom., M.Kom., who accompanied them throughout the exhibition. Their participation not only brought pride to the institution but also demonstrated that student-created games from Indonesia can compete and shine at the highest levels of the global gaming industry.

STUDENT ACHIEVEMENT

BINUS University Game Application & Technology Students Selected as **Exhibitors at IGDX 2025**

Students from the Game Application & Technology program at BINUS University's School of Computer Science were selected as exhibitors at Indonesia Game Developer eXchange (IGDX) 2025, a prominent national game industry event held in Bali that brings together developers, publishers, investors, and academics to strengthen Indonesia's game ecosystem. The selection process was competitive, and the BINUS students showcased their game projects alongside professional studios, highlighting their creativity and technical proficiency.

The BINUS exhibitors from the LOGIC community included George Mercedes Junior Suitela with Luminote Mio, Marcelino Kevin Nanda Candrabagaskara with Silent Trip, and Bryan Kurniawan with Project Heist. They received guidance from Dimas Ramdhan, S.Kom., M.Kom., and support from Thomas Galih Satria, S.Kom., M.TI., demonstrating how the program's mentorship and industry-aligned training prepare students to contribute effectively to Indonesia's game development landscape

Cyber Security Students Earn National Recognition Through PETIR Team Achievements

2025 marked another strong year for the Cyber Security Program at the School of Computer Science, BINUS University, as Team PETIR delivered consistent performances across major national cybersecurity competitions. Competing against top university teams from across Indonesia, PETIR demonstrated not only technical proficiency but also the strategic thinking and teamwork required in high-pressure security challenges.

At the Indonesia IT Security Conference 2025 (IDSECCONF 2025) in Makassar, Team PETIR earned third place in the Capture The Flag (CTF) competition. Represented by Emmanuel Silangga and Evelyn Ang, and supported by academic mentor Ayu Maulina, S.Kom., M.Kom., the team navigated complex security scenarios that tested their skills in system exploitation, defense strategies, and rapid problem-solving. Their performance reflected careful preparation and effective collaboration throughout the competition round

Momentum continued the following week at Schematics 2025, hosted by Institut Teknologi Sepuluh Nopember (ITS) in Surabaya. A different PETIR lineup—Ruben Albion Yobel, Michael Stevanus Tanoto, and Vincent Ferdinand Kwee—advanced to secure second place, standing out among leading teams nationwide.

The result was particularly significant, as BINUS University emerged as the only private university to reach the top three in the competition. Taken together, these achievements illustrated how competition-based learning has become an integral part of the Cyber Security Program. By engaging directly with real-world cybersecurity challenges, BINUS students gained practical experience while reinforcing their readiness to contribute to the national and global cybersecurity workforce.

STUDENT ACHIEVEMENT

BINUS SoCS Students Shine at **Data Analysis Competition 2025**

Students from the School of Computer Science (SoCS) at BINUS University demonstrated strong analytical skills and competitive spirit at the Data Analysis Competition 2025, held by the Statistics Student Association of Institut Teknologi Sepuluh Nopember (ITS) during the Pekan Raya Statistika event in Surabaya. The competition, themed "Decoding Consumer Behavior: Statistical Approaches for Digital Marketing Insights", challenged participants to perform deep learning model training and data analysis to generate actionable insights from provided datasets.

Competing through rigorous stages including report submission, live coding, and final presentations before expert judges, the BINUS SoCS team earned two prestigious accolades.

The group of Johanes Cedrick Wijaya (Computer Science – Mathematics) and Stevanus Gerald Marconus (Data Science Program) secured 5th Place in the Master of Data Analysis category, while Elena Nathanielle Budiman Angkawi (Data Science Program) and Xander Trevor Tenggari (Computer Science – Alam Sutera Campus) were honored with the Best Presenter award, highlighting both technical excellence and communication skills.

This achievement underscores the quality of data science and analytical training at BINUS SoCS, reflecting the institution's commitment to cultivating talented graduates ready to excel in data-driven fields across Indonesia. The success also illustrates how BINUS' students can compete effectively in national events that simulate real-world data challenges, reinforcing their readiness for future professional and academic pursuits.

Prof. Derwin Suhartono Highlighted the Human-Centered Role of AI at BINUS **HR Tech Summit 2025**

Jakarta, 21–22 October 2025 — Prof. Derwin Suhartono, Dean of the School of Computer Science at BINUS University, was one of the featured speakers at BINUS HR Tech Summit 2025, a collaborative forum that brought together academics, industry leaders, and government representatives to discuss technology-driven transformation in human resources.

Held at Artotel Suites Jakarta, the summit emphasized cross-sector collaboration in addressing the evolving challenges of the future workplace. In his session titled "Empowering People, Not Replacing Them — The Human Side of AI," Prof. Derwin highlighted that Artificial Intelligence (AI) was no longer a distant concept, but an integral part of the tools and systems used in everyday professional environments.

He emphasized that AI should be viewed as an enabler rather than a replacement for human roles. According to Prof. Derwin, AI strengthened human potential by improving work effectiveness, opening new career opportunities, and encouraging the development of more adaptive and future-ready skills.

During the session, Prof. Derwin also shared insights on how AI had evolved into a strategic partner across various industries—supporting smarter decision-making processes and enhancing organizational competitiveness. The discussion further explored how AI was reshaping Human Resource practices and redefining the future of work. With a human-oriented approach, AI was positioned as a key driver of inclusive, sustainable, and impactful digital transformation for both individuals and organizations.

Prof. Derwin Suhartono's participation in BINUS HR Tech Summit 2025 reaffirmed the active role of the School of Computer Science, BINUS University, in promoting human-centered digital transformation. The forum served as a strategic platform to bridge technological innovation with human values, while strengthening cross-sector collaboration in shaping an adaptive, ethical, and visionary future talent ecosystem.

Advancing Executive Decision-Making Through AI: Prof. Derwin Suhartono at **Ministry of Finance**

Prof. Derwin Suhartono, Dean of the School of Computer Science at BINUS University, shared strategic insights on the role of Artificial Intelligence (AI) in executive decision-making during a seminar hosted by the Badan Pendidikan dan Pelatihan Keuangan (BPPK), an institution under the Ministry of Finance of the Republic of Indonesia. The session engaged senior leaders and decision-makers in a discussion on how AI could be responsibly leveraged to strengthen leadership effectiveness in the public sector.

In his presentation, “Decision Intelligence: Strengthening Executive Decision-Making with AI,” Prof. Derwin examined global trends in AI adoption and their implications for public sector capability development. He highlighted how AI-enabled systems could support more strategic workforce planning by predicting training needs, recommending personalized learning pathways, and enabling the development of adaptive, data-driven learning ecosystems for civil servants (Aparatur Sipil Negara – ASN).

Beyond technological opportunities, the discussion also addressed the importance of governance and ethical considerations in AI adoption. Prof. Derwin emphasized the need to manage risks such as hallucination, algorithmic bias, data privacy concerns, and excessive dependence on automated systems. In this context, AI was positioned as a strategic partner—designed to augment human judgment, experience, and intuition rather than replace them.

The session further underscored the role of cross-generational learning in cultivating a strong decision intelligence culture. Prof. Derwin noted that younger, digital-native generations had naturally embraced AI technologies, and that meaningful collaboration across generations was essential to ensuring successful organizational transformation in an increasingly digital environment.

Through this engagement, the School of Computer Science at BINUS University reaffirmed its commitment to strengthening collaboration between academia and government institutions. By promoting the strategic and ethical use of emerging technologies, the school continues to contribute to the development of resilient, future-ready leadership and public sector capabilities.

Empowering Digital Education: BINUS SoCS Advances Learning Management System Innovation

A team from the Computer Science program at BINUS @Malang conducted a pilot implementation of a web-based Learning Management System (LMS) at SMAK St. Louis 2 Surabaya to support the school's digital learning transformation. The initiative was designed to meet teachers' and students' needs by organizing course materials, facilitating interactive discussions, managing schedules, and monitoring learning progress through a centralized, user-friendly platform. The LMS's structured interface aims to streamline teaching and learning activities, moving beyond mere digital content delivery to enhance educational interaction and accessibility

The LMS platform integrates core features such as structured learning materials, session-specific forums, syllabus planning, and lists of teachers and students to strengthen learning engagement.

Built with modern technologies like Next.js for responsive performance and secure data handling, the system ensures that academic content and communication are accessible anytime by both instructors and learners. This thoughtful design reflects a research-based development process involving stakeholder interviews, prototyping, iterative testing, and technical validation.

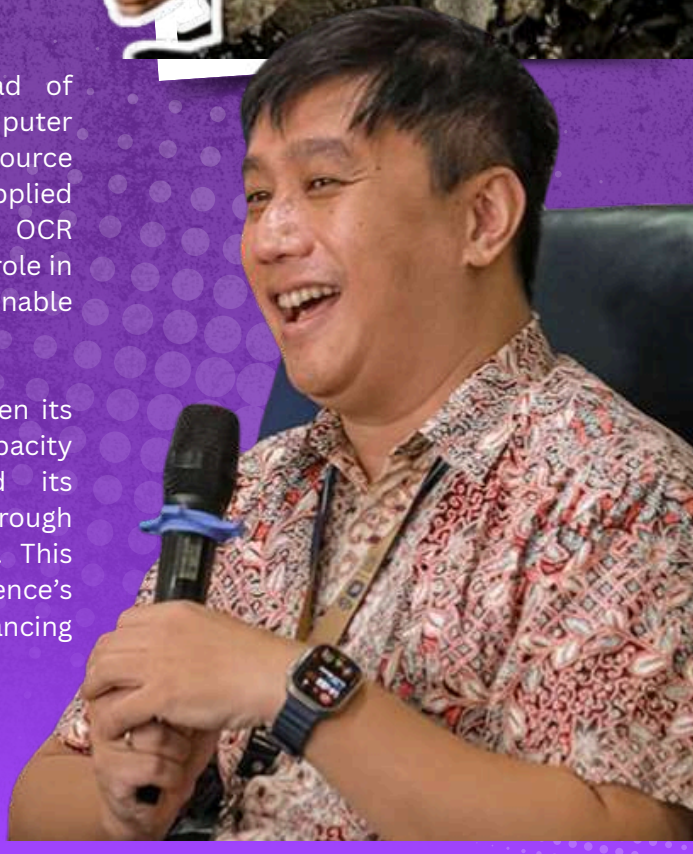
This project not only demonstrates the technical capability and academic contribution of BINUS Malang Computer Science students and faculty, but also reflects BINUS's commitment to strengthening digital education infrastructure and community collaboration. With plans to expand LMS features including future AI-based assessment tools, the initiative underscores BINUS's role in empowering schools to adopt innovative digital learning solutions that align with Indonesia's broader educational goals

Academic–Government Collaboration: BINUS University Delivered OCR Training for the Ministry of Finance

The School of Computer Science at BINUS University played an active role in strengthening public sector digital capabilities by contributing academic expertise to an In-House Training (IHT) on Optical Character Recognition (OCR) for the Pusat Pengolahan Data dan Dokumen Perpajakan (PPDDP) or Tax Data and Documentation Processing Center, a unit under the Ministry of Finance of the Republic of Indonesia.

As part of this initiative, BINUS University supported PPDDP in enhancing the technical capacity of its human resources, particularly in the development and application of OCR technology for document processing and data management. The training was designed for selected PPDDP personnel with a strong interest in Information Technology, ensuring focused knowledge transfer and practical relevance.

The session featured Andry Chowanda, Ph.D, Head of Computer Science Department at the School of Computer Science, BINUS University, who served as the main resource person. Drawing on academic research and applied experience, the session introduced participants to OCR concepts, development approaches, and their strategic role in supporting more efficient, accurate, and sustainable organizational processes.



Through this In-House Training, PPDDP aimed to deepen its internal understanding of OCR as part of long-term capacity development, while BINUS University reaffirmed its commitment to supporting government institutions through knowledge sharing and applied technology expertise. This collaboration reflected the School of Computer Science's ongoing role as a trusted academic partner in advancing digital transformation initiatives within the public sector.

Let's collaborate with us!!

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