

**National Journal List 2024**  
**Artificial Intelligence and Machine Learning (AIML & DATA SCIENCE) 2024-25**

No.	Sr.No	Journals Name	Publisher	ISSN No.	Frequency
1	1	Indian Journal of Applied Artificial Intelligence in Engineering System	Serials Publications Pvt. Ltd.		2
2	2	Recent Trends in Artificial Intelligence & it's applications	Mat Journals	2583-4819	3
3	3	Scient Journal of Artificial Intelligence and Machine Learning	Scient Center of Excellence JPI Ltd.		3
<b>Computer Science Department Journals</b>					
1	4	ICTACT Journal on Soft Computing (IJSC) (UGC Care)	ICT Academy of Tamil Nadu	0976-6561	4
2	5	Journal of Artificial Intelligence Research Advances	STM Journals	2395-6720	3
3	6	Advancement of Computer Technology and its Applications	HBRP Publication Pvt. Ltd.		3
<b>Computer Department Journals</b>					
1	7	Global Journal of Mobile Application and Development	Enriched Publication		3
2	8	Indian Journal of Information Sources and Services (SCOPUS)	The Research Publication		4
3	9	Journal of Web Engineering and Technology	STM Journals	2455-1880	3
4	10	Digit Magazine	9.9 Group Pvt. Ltd.		12
<b>Mechanical Department Journals</b>					
1	11	AMC Indian Journal of Entrepreneurship (ICI / UGC)	Associated Management	0973-8711	4
2	12	Indian Journal of Advanced Manufacturing Systems	Serials Publications Pvt. Ltd.		2
3	13	Indian Journal of Advances in Tribology	Serials Publications Pvt. Ltd.		2
4	14	Indian Journal of Manufacturing Science and Engineering (IJMSE)	Serials Publications Pvt. Ltd.		2
5	15	Indian Journal of Modern Production Engineering	GBS Publishers and Distributors (India)		2
6	16	Indian Journal of Product Design	Serials Publications Pvt. Ltd.		2
7	17	Journal of Fluid Mechanics and Mechanical Design	Mat Journals	2582-9165	2
<b>Electrical Department Journals</b>					
1	18	Advance Development in Indian Electrical Engineering	GBS Publishers and Distributors		2
2	19	Indian Journal of Advances in Electrical Engineering	Research India Publications		2
3	20	Journal of Energy, Environment and Carbon Credits	STM Journals	2249-8621	3
<b>First Year Department Journals</b>					
1	21	Indian Journal of Applied Mathematics and Fluid Mechanics	Research India Publications		2
2	22	Indian Journal of Artificial Intelligence and Computational Research	Serials Publications Pvt. Ltd.		2
3	23	Indian Journal of Materials Science	Serials Publications Pvt. Ltd.		2
<b>Mechatronics Department Journals</b>					
1	24	Journal of Advanced Research in Applied Artificial Intelligence and Neural Network	Advanced Research Publications		2
2	25	Indian Journal of Advance Mechatronics and Robotics	GBS Publishers & Distributors (India)		2
3	26	Indian Journal of Automotive Technology	Enriched Publication		3
4	27	Advancement of Signal Processing and its Applications	HBRP Publication Pvt. Ltd.		3
5	28	Indian Journal of Advances in Electronics and Electric Engg.	Serials Publications Pvt. Ltd.		2

*W. Sandhya*





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1	Indian JI. of Applied Artificial Int elligence in Engg & Syste	IRS	2400.00	2400.00
2	International JI. of Artificial Inte lligence & Machine Learni	IRS	5400.00	5400.00
3	International Journal of Computing & Artificial Intelligence	IRS	2380.00	2380.00
4	International JI. of Multimedia Comp uter Vision & Machine Lea	IRS	2340.00	2340.00
5	Recent Trends in Artificial Intelli gence & It's Applications	IRS	2125.00	2125.00
6	Sciencet JI. of Artificial Intelligen ce and Machine Learning	IRS	2520.00	2520.00
7	ICTACT Journal on Soft Computing	IRS	4750.00	4750.00
8	International JI. of Artificial Inte lligence Computational Research	IRS	2340.00	2340.00



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9 International Journal of Engineering in Computer Science	IRS	2380.00	2380.00
10 International JI. of Intelligent Systems Science & Technology	IRS	2340.00	2340.00
11 STM Journal of Artificial Intelligence Research & Advances	IRS	4050.00	4050.00
12 Advancement of Computer Technology & Its Applications	IRS	2200.00	2200.00
13 Global Journal of Mobile Application & Development	IRS	2730.00	2730.00
14 Indian Journal of Information Sources & Services (IJISS)	IRS	4500.00	4500.00
15 International JI. of Computational Vision & Applications	IRS	2800.00	2800.00
16 STM Journal of Web Engineering & Technology	IRS	4050.00	4050.00
17 International Journal of Advanced Computer Engineering	IRS	2340.00	2340.00
18 Digit	IRS	1620.00	1620.00



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19 BMC Indian Journal of Entrepreneurs hip	IRS	1860.00	1860.00
20 Indian Journal of Advanced Manufact uring Systems	IRS	2340.00	2340.00
21 Indian Journal of Advances in Tribo logy	IRS	2800.00	2800.00
22 Indian Journal of Manufacturing Sci ence & Engineering	IRS	2340.00	2340.00
23 Indian Journal of Modern Production Engineering	IRS	2550.00	2550.00
24 Indian Journal of Product Design	IRS	2340.00	2340.00
25 STM International Jl.of I.C. Engine s & Gas Turbines	IRS	3150.00	3150.00
26 Journal of Fluid Mechanics & Mechan ical Design	IRS	2125.00	2125.00
27 Advance Development in Indian Elect rical Engineering	IRS	2550.00	2550.00
28 Indian Journal of Advances in Elect rical Engineering	IRS	2550.00	2550.00





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29 International Jl. of Power Electronics Controllers & Converters	IRS	4050.00 4050.00
30 International Jl. of Power Systems & Power Electronics	IRS	2340.00 2340.00
31 International Journal of Smart Grid and Electric Vehicles	IRS	5400.00 5400.00
32 STM Journal of Energy, Environment & Carbon Credits	IRS	4050.00 4050.00
33 Indian Journal of Applied Mathematics & Fluid Mechanics	IRS	2550.00 2550.00
34 Indian Jl. of Artificial Intelligence & Computational Research	IRS	2340.00 2340.00
35 Indian Journal of Material Science	IRS	2800.00 2800.00
36 International Journal of Internet of Things	IRS	4800.00 4800.00
37 JoAR Applied Artificial Intelligence & Neural Network	IRS	3150.00 3150.00
38 Indian Journal of Advance Mechatronics & Robotics	IRS	2550.00 2550.00



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39 Indian Journal of Automotive Technology	IRS	2808.00	2808.00
40 Advancement of Signal Processing and It's Applications	IRS	2200.00	2200.00
41 Indian Journal of Advances in Electronics & Electric Engg	IRS	2730.00	2730.00

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3	International Journal of Computing & Artificial Intelligence	49029020	1.00	2,380.00	0.00	2,380.00
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10	International JI. of Intelligent Systems Science & Technology	49029020	1.00	2,340.00	0.00	2,340.00
11	STM Journal of Artificial Intelligence Research & Advances	49029020	1.00	4,050.00	0.00	4,050.00
12	Advancement of Computer Technology & Its Applications	49029020	1.00	2,200.00	0.00	2,200.00
13	Global Journal of Mobile Application & Development	49029020	1.00	2,730.00	0.00	2,730.00
14	Indian Journal of Information Sources & Services (IJSS)	49029020	1.00	4,500.00	0.00	4,500.00
15	International JI. of Computational Vision & Applications	49029020	1.00	2,800.00	0.00	2,800.00
16	STM Journal of web Engineering & Technology	49029020	1.00	4,050.00	0.00	4,050.00
17	International Journal of Advanced Computer Engineering	49029020	1.00	2,340.00	0.00	2,340.00
18	DIGIT	49029020	1.00	1,620.00	0.00	1,620.00
19	AMC Indian Journal of Entrepreneurship	49029020	1.00	1,850.00	0.00	1,850.00
20	Indian Journal of Advanced Manufacturing Systems	49029020	1.00	2,340.00	0.00	2,340.00
21	Indian Journal of Advances in Tribology	49029020	1.00	2,800.00	0.00	2,800.00
22	Indian Journal of Manufacturing Science & Engineering	49029020	1.00	2,340.00	0.00	2,340.00
23	Indian Journal of Modern Production Engineering	49029020	1.00	2,550.00	0.00	2,550.00
24	Indian Journal of Product Design	49029020	1.00	2,340.00	0.00	2,340.00
25	STM International Journal of I.C. Engines & Gas Turbines	49029020	1.00	3,150.00	0.00	3,150.00
26	Journal of Fluid Mechanics & Mechanical Design	49029020	1.00	2,125.00	0.00	2,125.00
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Indian J. of Artificial Intelligence & Computational Research	49029020	1.00	2,340.00	0.00	2,340.00
Indian Journal of Material Science	49029020	1.00	2,800.00	0.00	2,800.00
International Journal of Internet of Things	49029020	1.00	4,800.00	0.00	4,800.00
ICAR Applied Artificial Intelligence & Neural Network	49029020	1.00	3,150.00	0.00	3,150.00
Indian Journal of Advance Mechatronics & Robotics	49029020	1.00	2,550.00	0.00	2,550.00
Indian Journal of Automotive Technology	49029020	1.00	2,808.00	0.00	2,808.00
Advancement of Signal Processing & It's Applications	49029020	1.00	2,200.00	0.00	2,200.00
Indian Journal of Advances In Electronics & Electric Engg	49029020	1.00	2,730.00	0.00	2,730.00
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# INDIAN JOURNAL OF APPLIED ARTIFICIAL INTELLIGENCE IN ENGINEERING SYSTEMS

VOLUME 16

NUMBER 1

JANUARY-JUNE 2024

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Volume - 03, Issue - 01  
January - April, 2024



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It is a peer reviewed journal in the discipline of Computer Science published by the MAT Journals Pvt. Ltd. It is a print and e-journal focused towards the rapid publication of fundamental research papers on all areas of Artificial Intelligence. The journal aims to promote high quality empirical research, review articles, case studies and short communications mainly focused on Artificial Neural Networks, Machine Learning, Pattern Recognition, Soft Computing and Fuzzy Systems, Intelligent Robotic Systems, Image and Video Processing and Analysis, Swarm Intelligence, Medical Imaging, Speech Generation and Recognition.

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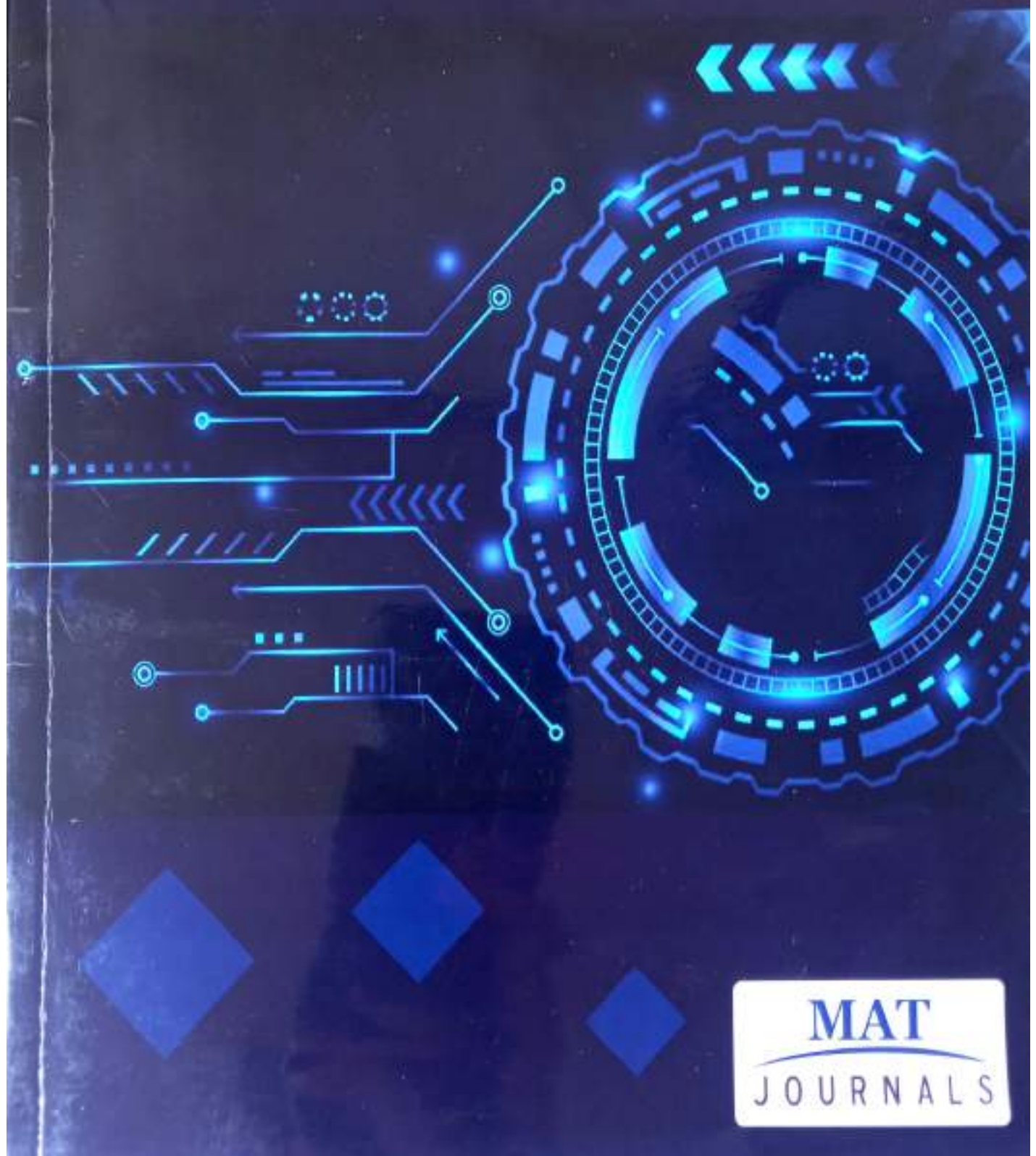
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# Recent Trends in Artificial Intelligence & It's Applications

Volume - 03, Issue - 02

May - August, 2024



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# Recent Trends in Artificial Intelligence & It's Applications

It is a peer reviewed journal in the discipline of Computer Science published by the MAT Journals Pvt. Ltd. It is a print and e-journal focused towards the rapid publication of fundamental research papers on all areas of Artificial Intelligence. The journal aims to promote high quality empirical research, review articles, case studies and short communications mainly focused on Artificial Neural Networks, Machine Learning, Pattern Recognition, Soft Computing and Fuzzy Systems, Intelligent Robotic Systems, Image and Video Processing and Analysis, Swarm Intelligence, Medical Imaging, Speech Generation and Recognition.

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JAN-APR || 2024





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Issue-1  
Jan-April-2024

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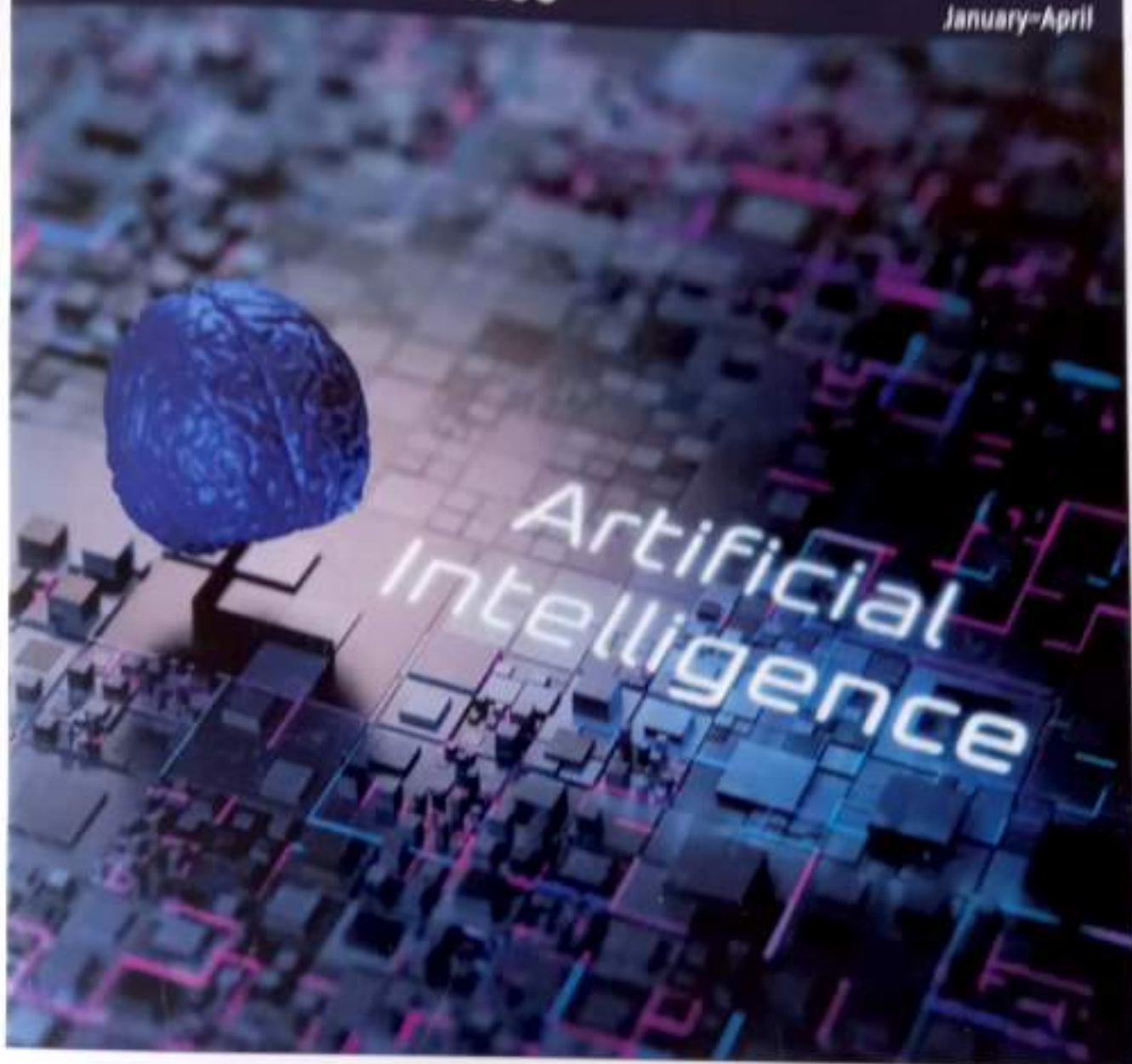
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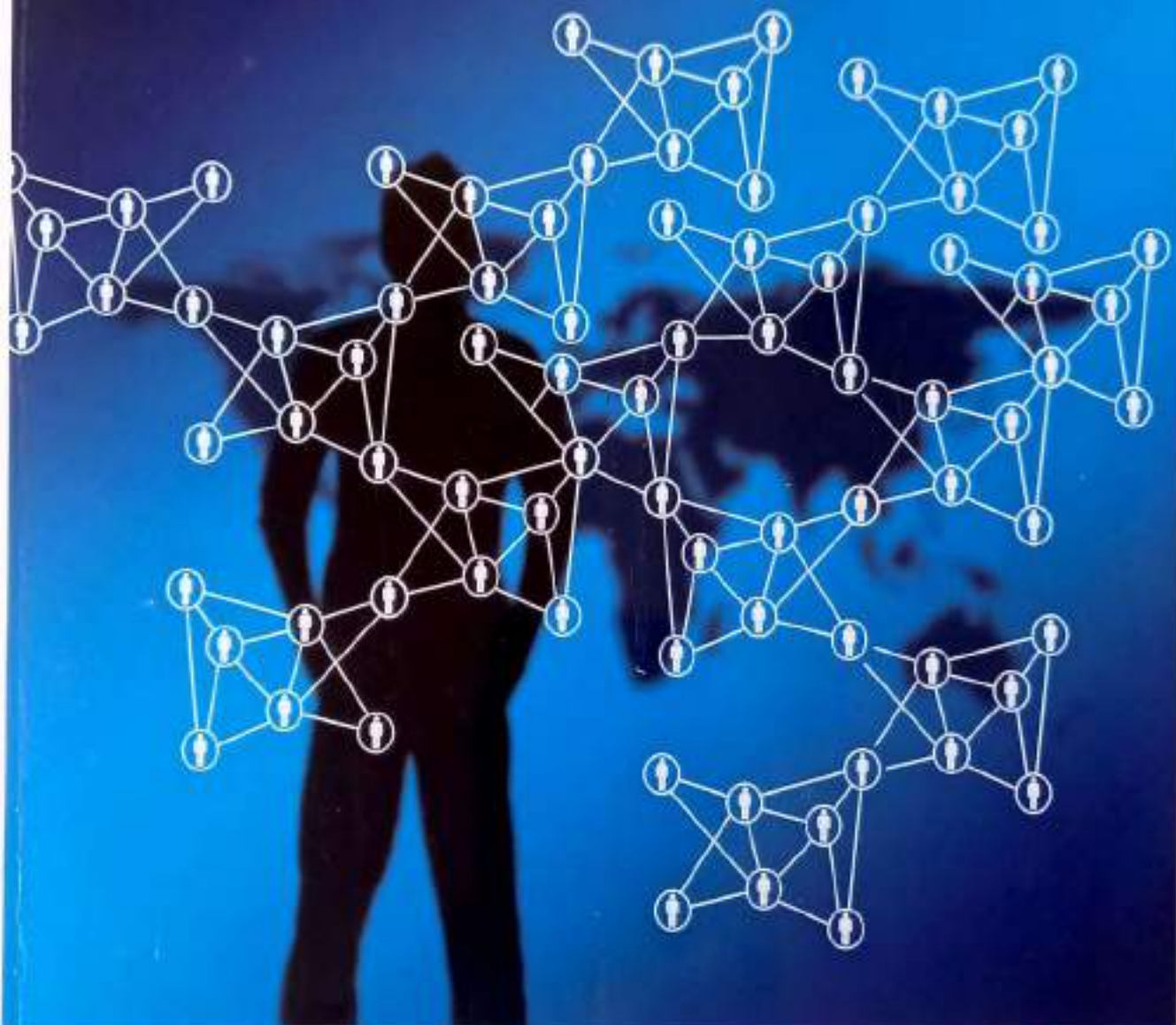
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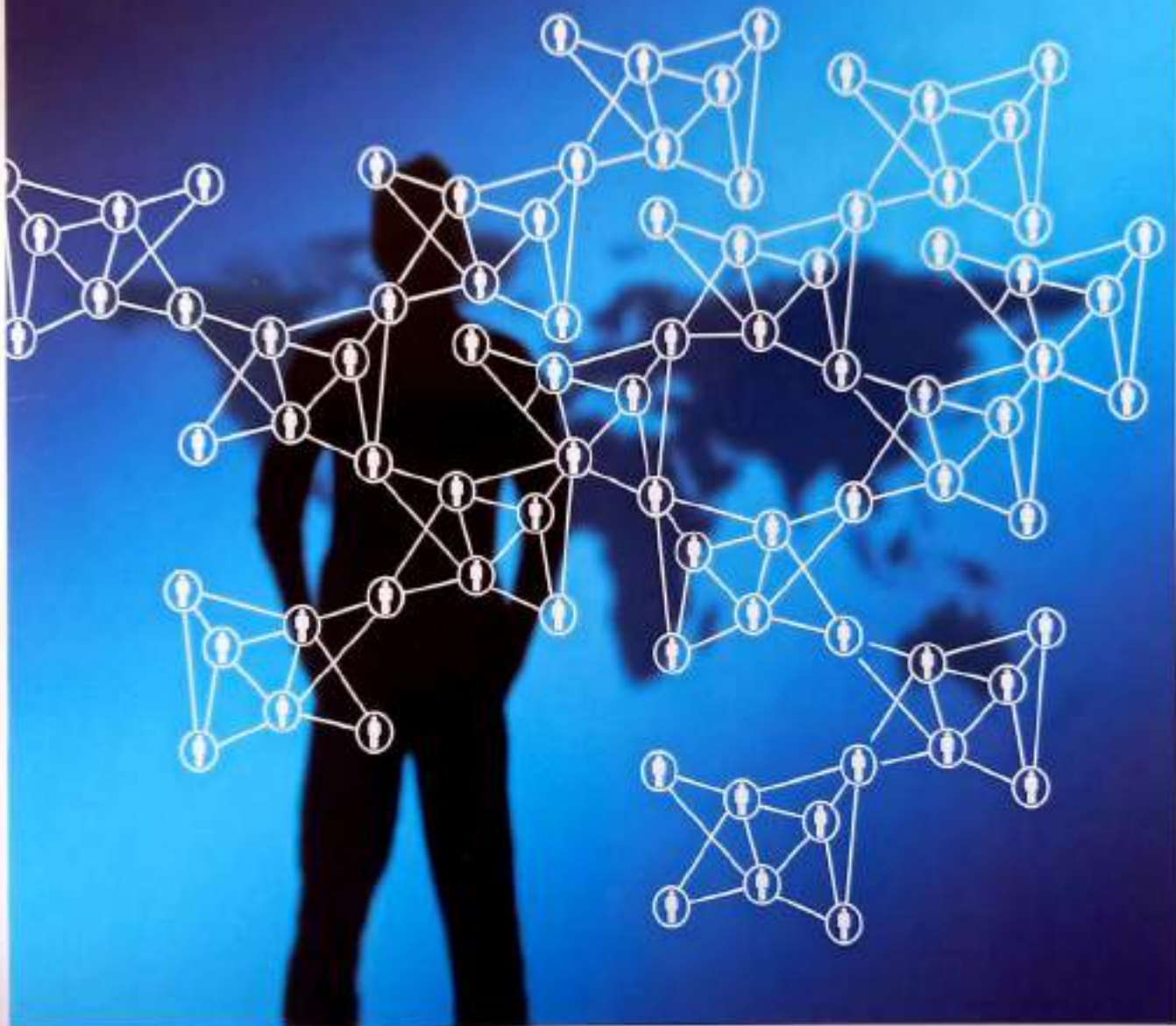
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# Hybrid by Design

**A** few of us at work recently got roped in to moderate some panels around the concept of Hybrid by Design. Seems kind of obvious for folks building systems to follow a hybrid approach in order to get the 'best of multiple worlds' but reality is quite different. The term Hybrid by Design, a concept which blends the best of multiple worlds—cloud and on-premises infrastructure, personal and professional devices, and diverse ecosystems—promises unparalleled flexibility and adaptability. But while Hybrid by Design seems like an inevitable solution to modern technological needs, is it really the future, or just another layer of complexity that consumers must navigate?

Consider the rise of hybrid cloud systems. It's no longer necessary to choose between keeping sensitive data on-site or taking the leap to the cloud. They offer a flexible middle ground that users to varied needs. For example, consumers can store large media libraries on a local NAS device for fast access while backing up critical documents to a cloud provider for redundancy and security. I've been doing this for quite some time. Started off with using my old PC as an HTPC which slowly evolved to becoming a backup dump, eventually being hooked up to my cloud storage for the important documents.

Similarly, look at personal gadgets that are designed to blend work and personal life seamlessly. Smartphones are perhaps the ultimate hybrid device. Users can handle work emails, track fitness, and entertain themselves with games or streaming services—all from one pocket-sized device. This kind of hybrid functionality enables a flexible and adaptable user experience, allowing people to shift between work and play effortlessly.

The same concept extends to home technology setups. Devices like smart speakers, TVs, and even routers are designed to operate within a hybrid system. Folks now expect their smart home devices to operate in a fluid manner, where they can control a local device like a thermostat or a home security system from the cloud, or access cloud-based media content through their local devices. This creates an ecosystem that feels cohesive and connected, enhancing the overall user experience.



**"The challenge for tech companies is to deliver on the promise of 'Hybrid by Design' without making it a burden for the user."**

**Mithun Mohandas**  
Managing Editor



Let me know your thoughts on this column at:  
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**mithun@digit.in**

Yet, while hybrid technology offers undeniable advantages, it also comes with an inherent trade-off: complexity. Integrating multiple systems often introduces layers of difficulty that can overwhelm even tech-savvy users. Take hybrid cloud systems as an example. While they offer flexibility, managing the intricacies of what data to store locally versus in the cloud can be daunting. IT professionals and consumers alike must navigate the challenges of ensuring compatibility, security, and redundancy. The interface between local and cloud systems isn't always as seamless as one might hope. This can sometimes lead to a situation where the hybrid system becomes more trouble than its worth, requiring constant attention and technical knowledge that average users might not possess.

In the consumer space, hybrid devices can often suffer from the very flexibility they promise. Laptops that double as tablets sound great in theory, but many models fail to excel in either category. Instead of having the best of both worlds, users often end up with a compromised experience on both ends. Smart home devices are appealing, but the reality is often more frustrating. As more devices are integrated into the home, managing them becomes increasingly complex, and users have to grapple with privacy concerns.

For hybrid technology to succeed in the consumer market, it needs to provide more than just versatility—it must offer simplicity. One of the major issues with hybrid devices is that they often ask too much from the user in terms of management. My colleagues and I have been experiencing this for the past couple of months as we've been juggling between Google Workspace and Microsoft's Office 365. We've worked with Google's services for so long that the transition to Microsoft's services has been rife with frustrating quirks that just don't work the way we expect it to.

The challenge for tech companies is to deliver on the promise of 'Hybrid by Design' without making it a burden for the user. Yes, this would mean an open standard and most technology domains to move towards an open standard eventually. It's just that this 'eventuality' takes a really long time. ■



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# The bigger they are ...

**T**here's a lot of action in the processor space thanks to a rapid cycle of innovation brought on by the introduction of ARM-based processors and a general uptick in the pace of innovation. For decades, x86 processors powered the world's data centres, coming largely from industry giants such as Intel and AMD. However, a shift is underway. Hyperscalers such as Amazon Web Services (AWS), Google, and Microsoft, which control vast portions of the cloud infrastructure market, have developed their own custom processors optimised for their specific needs. These chips – AWS Graviton, Google Axion, and Microsoft Cobalt – are all ARM-based, so, we've got ARM-based designs making inroads into the consumer as well as the data centre space.

Which begs the question – What prompted these large cloud providers to design their own processors, and what does this mean for the big guys? At the core of this shift lies the desire for greater control over performance and power consumption. In the cloud computing world, efficiency matters more than ever. Data centres are heavily focused on power consumption. The cost of running their facilities scales directly with the amount of power they consume, and this has significant financial and environmental implications. Hyperscalers are under constant pressure to reduce energy footprints while delivering more computational power.

ARM-based processors are known for their power efficiency, which is a crucial factor for hyperscalers who are managing thousands of even millions of servers. AWS, Google, and Microsoft, with their massive cloud infrastructures, are looking to squeeze every possible watt of efficiency out of their hardware. By designing their own chips, these companies can optimise them for the specific workloads that they need to run. Instead of relying on general-purpose x86 processors, companies can tailor their chips to excel in the kinds of workloads that they handle the most. And it's not just CPUs that these big players are making; they've even started building custom AI chips. Though nowhere close to what NVIDIA's chips are capable of, their attempts will eventually lead them to building competitive products.



**"The rise of these custom ARM-based processors from hyperscalers marks the beginning of a new era in the enterprise market."**

**Mithun Mohandas**  
Managing Editor

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The x86 folks have found themselves somewhat caught off guard. Part of the challenge for the x86 processors lies in their legacy. The x86 architecture was designed in a different era, and while it has been continually updated, it still carries a great deal of complexity, particularly in the instruction set. Legacy features, such as support for 16-bit and 32-bit instructions, contribute to a larger, more power-hungry design than what can be achieved with ARM designs. Enter x86s – an initiative to come up with a slimmed down x86 instruction set. By doing this, Intel hopes to make its processors more competitive in terms of power efficiency, and perhaps even close the gap with ARM-based designs. But will it be enough?

ARM chips designed to be both power-efficient and highly customisable. This allows companies to optimise their chips in ways that traditional x86 processors simply cannot. With this, the hyperscalers are able to build chips that are equally fast, if not faster, and more efficient than what's available in the open market. All of this sounds a little too good to be true, right? Well, there are downsides. One of the immediate concerns is fragmentation. As each cloud provider builds its own custom chips, they introduce a level of divergence in the market. Software that runs great on Graviton might not run just as fast on an Axion or a Cobalt, and vice-versa. Developers will have to come up with optimised middleware. Thankfully, the abstraction between hardware and software would mean that this level of customisation wouldn't be a deal-breaker, but it will be a problem. A short-lived one since everyone wants a unified standard and historically, all attempts to fragment standards have eventually led them to being converged.

The rise of these custom ARM-based processors from hyperscalers marks the beginning of a new era in the enterprise market. While x86 processors will remain a key player in the foreseeable future, for the big guys to stay relevant, they'll have to be open to coming up with custom ARM-based designs themselves since coming up with a new instruction set is out of the question, especially considering that building a new ISA is a multi-decade endeavour. Which way do you think the pendulum will swing? ■



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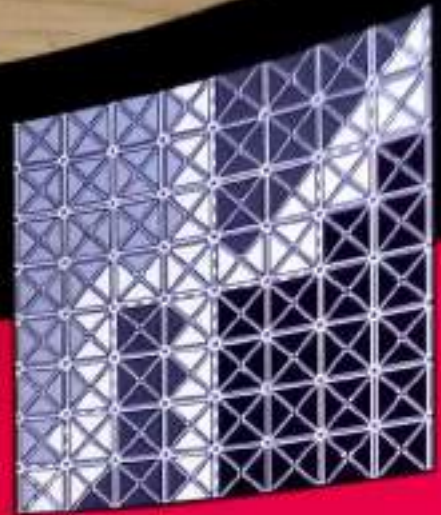



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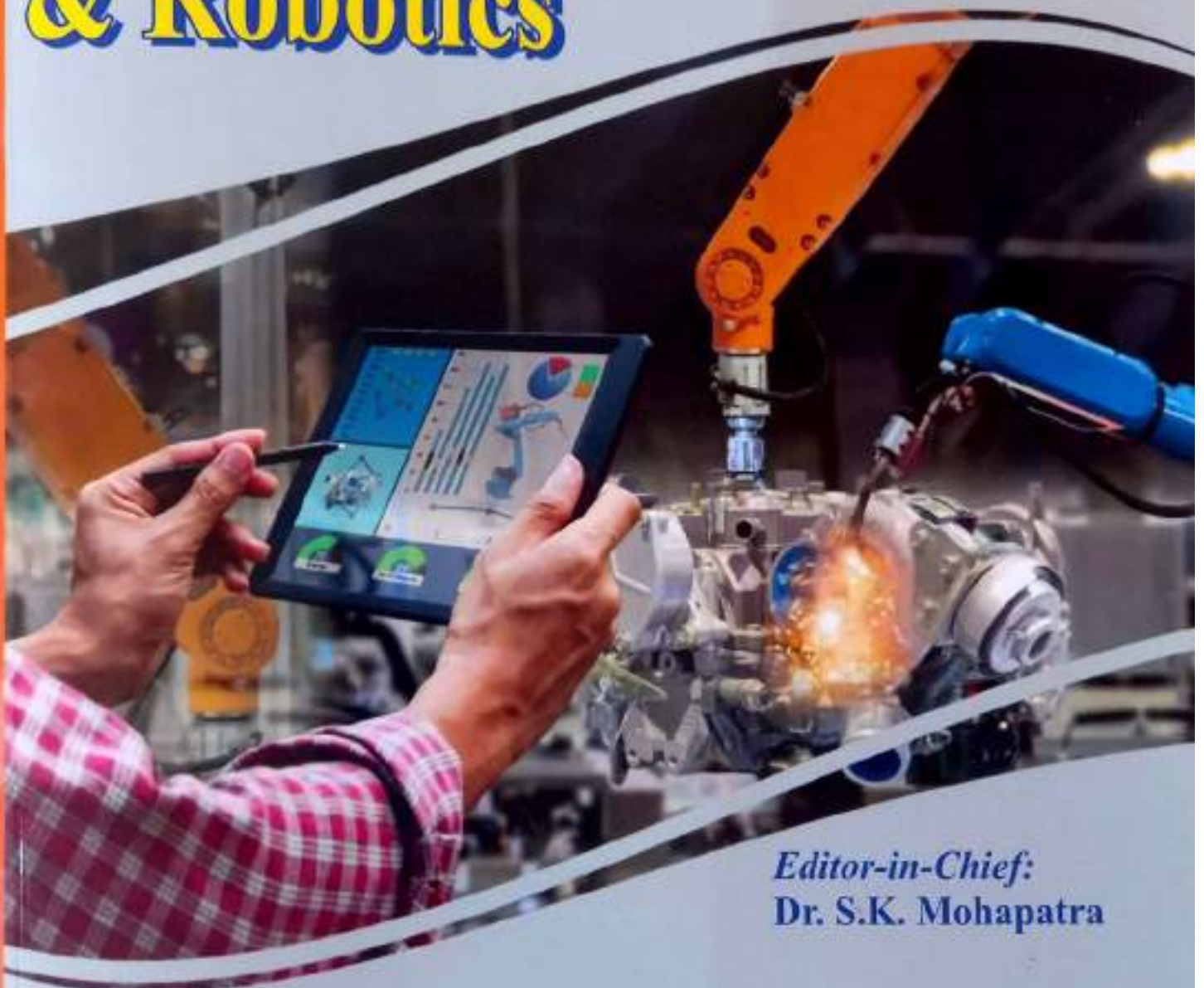




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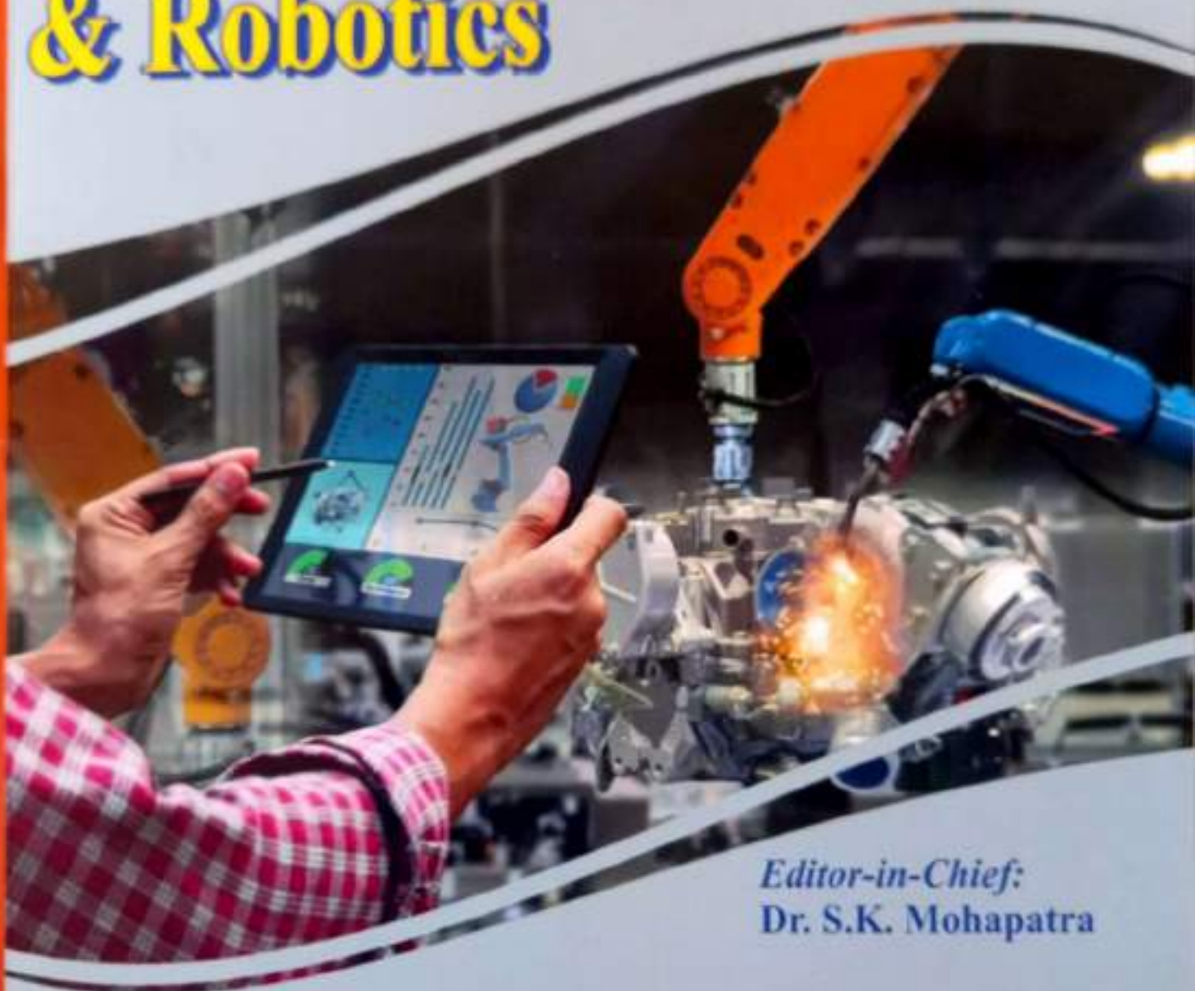




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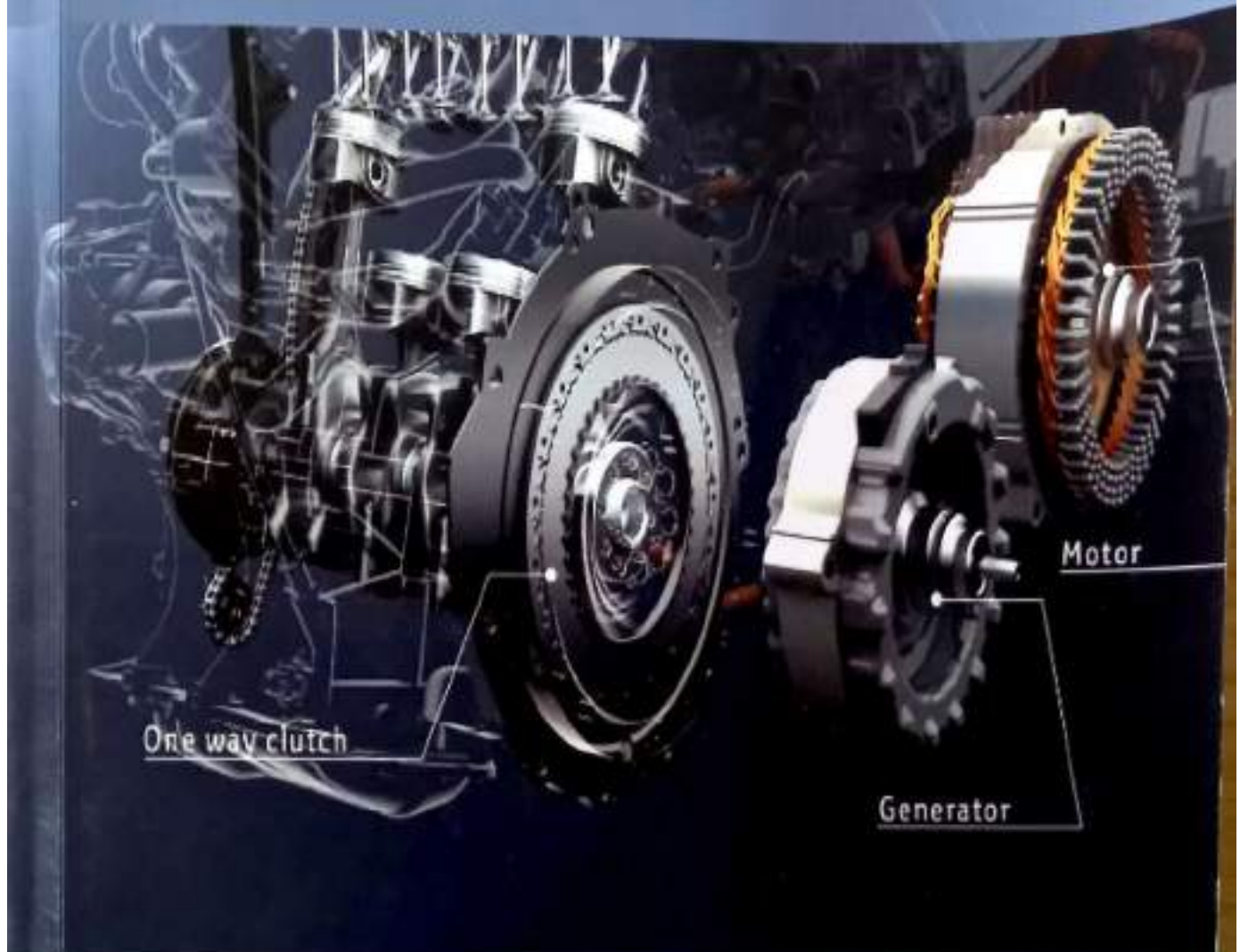




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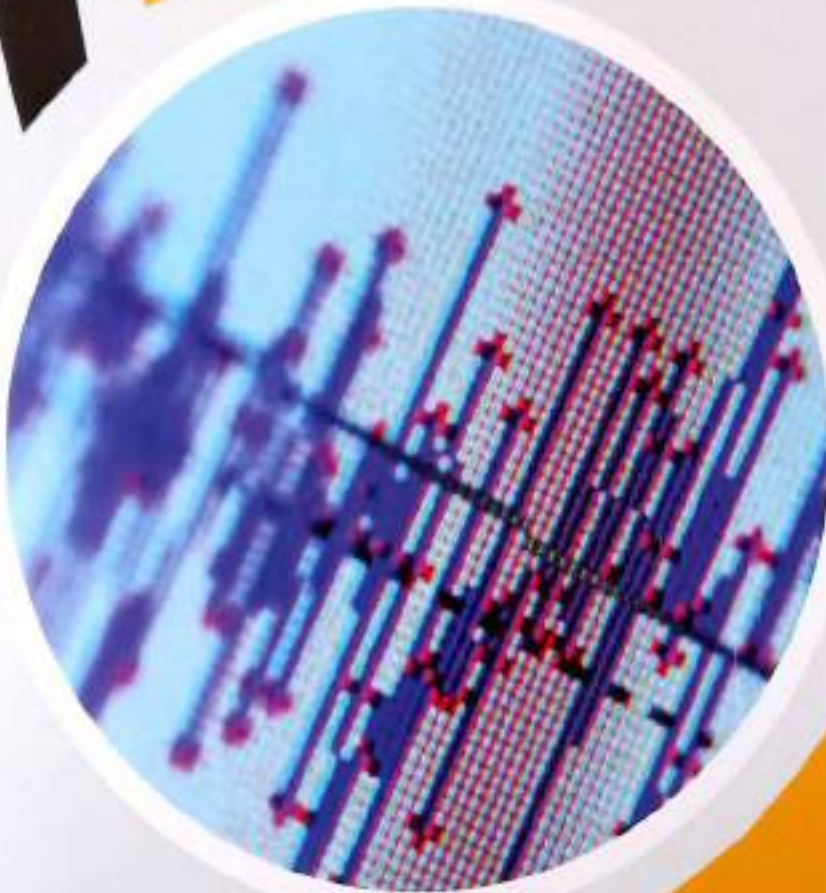
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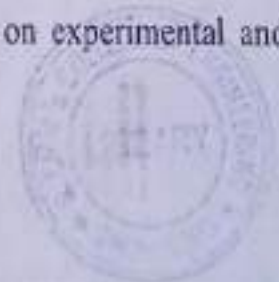
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