

AI powered security robots promise rapid response

-: Trinity Mirror Online Team:-

Artificial Intelligence is transforming physical security, with companies like Knightscope, Inc. leading the way in developing security robots. According to an article by Charvi Arora in SPAN, Edition 2, 2025, Knightscope's Autonomous Data Robots (ADRs) are equipped with advanced sensors and self-driving technology to monitor public spaces, including malls, parking lots, and neighborhoods.

These robots are designed to detect potential threats, such as weapons, and identify suspicious activities, providing realtime alerts to law enforcement and security teams. Knightscope aims to enhance safety in the United States.

Knightscope was founded in 2013, its founders stated that they were motivated to create autonomous security robots following the Sandy Hook School Shooting

Knightscope's robots are designed to analyze



data, detect anomalies, and provide timely notifications, potentially reducing the need for human security guards and police officers. The company also utilizes Generative AI to proactively counter digital threats, including hacking attempts, phishing attacks, and unauthorized access, to protect both companies and individuals.

Besides being autonomous, robot features include the ability to read license plates, run thermal scans, detect hidden weapons, and identify the faces of wanted people.

A security official from Pechanga Resort Ca-

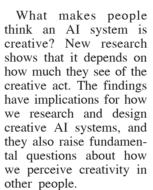
Knightscope robots, stated that he was unsure if the robots have reduced crime at the casino, but that they have been useful in identifying people the casino has blacklisted, and that footage the robots provided prevented a civil lawsuit against the casino

Other Knightscope innovations include the K1 Hemisphere, a stationary security device with versatile mounting options, and Automated Gunshot Detection (AGD), which instantly detects gunshots and facilitates rapid re-

One of Knightscope's key products is the K5 sino, which has deployed Autonomous Security Robot, an AI-driven, selfdriving robot that patrols properties and public areas. These robots can be monitored via software or by Knightscope's team, offering 24/7 surveillance and potentially lowering the cost of physical security.

While the deployment

of Knightscope robots has been associated with decreased crime rates in monitored areas, the technology has faced criticism regarding privacy and potential job displacement. The article notes that while AI is a powerful tool, it's crucial to use it



"AI is playing an increasingly large role in creative practice. Whether that means we should call it creative or not is a different question," says Niki Pennanen, the study's lead author. Pennanen is researching AI systems at Aalto University and has a background in psychology. Together with other researchers at Aalto and the University of Helsinki, he did experiments to find out whether people think a robot is more creative if they see more of the creative act. In the study, participants final product, the process,

What happens when

trailblazing engineers and

of computing efficiency

Data centers house and

use large computers to run

massive amounts of data.

Often times, the proces-

sors can't keep up with

this workload because

it's taxing to predict and

prepare instructions to

carry out. This slows the

flow of data. Thus, when

you type a question into a

search engine, the answer

generates more slowly or

doesn't provide the infor-

To remedy this issue,

researchers at Texas A&M

University developed a

new technique called Skia

in collaboration with In-

tel, AheadComputing, and

Princeton to help computer

processors better predict

future instructions and

improve computing per-

The team includes Dr.

Paul V. Gratz, a professor in the Department of Electrical and Computer

Engineering, Dr. Daniel A.

Jiménez a professor in the

Department of Computer

Science and Engineering,

and Chrysanthos Pepi, a graduate student in the Department of Electrical and Computer Engineer-

"Processing instructions has become a major bottleneck in modern processor des<mark>ign," Gratz</mark> said. "We developed a new technique, Skia, to better predict what's coming next and alleviate that

formance.

mation you need.

for modern data centres.

made. They were told the robots were driven by AI, but in fact it had been programmed to reproduce drawings that the researchers had commissioned from an artist. This deception made it possible to measure people's perception of creativity without requiring the robot to be creative, which would have introduced too much variability between the drawings. Next, the study par-

were initially asked to

evaluate the creativity of

robots based only on still

life drawings they had

ticipants evaluated how creative the drawings were when they saw not only the final product but also a video of the drawing process -- the lines appearing on the page, but not the robot creating them. In the final stage, participants scored the drawings when they could see all three elements: the drawing.

The findings showed that the drawings were seen as more creative as more elements of the creative act were revealed. "The more people saw, the more creative they judged it to be. As far as I'm aware, we're the first to study the effects of perceiving product, process and producer in a separate and controlled manner, not only in the context of AI but also more generally," says Christian Guckelsberger, assistant professor of creative technologies at Aalto and the study's

senior author. Understanding how people assess the creativity of robots or other artificial systems is important in thinking about how to design them - but it's not entirely clear what the appropriate design choices would be. "The study suggests that re-

vealing more about the process and producer can be conducive to people's perception of the systems' creativity. But if we added elements to make AI systems seem more creative even though the system is in fact performing the same way, we could question whether that's actually a good thing.' In some cases, that could be helpful - for example, it might be a way to help people stay engaged with a co-creative system. But in other contexts, it could give people a deceptive impression of how creative an artificial system really is," says

In addition to these social and design implications, the findings also have significance for research on creative AI systems. If our judgment of creativity depends on how a system is presented, then future studies should

Guckelsberger.

Ping pong bot returns shots with high-speed precision

ting in on the robotic ping pong game with a powerful, lightweight design that returns shots with high-speed precision.

jointed robotic arm that is fixed to one end of a ping pong table and wields a standard ping pong paddle. Aided by tem, the robot quickly ball and executes one loop, drive or chop - to anticipate. precisely hit the ball to of spin.

robot, one after the other. from across the ping pong table. The bot successfully returned the balls with a hit rate of about 88 percent across all three swing types. The robot's strike speed apand is faster than that of

MIT engineers are get- other robotic table tennis designs.

Now, the team is looking to increase the robot's playing radius so that it can return a wider vari-The new table tennis ety of shots. Then, they bot comprises a multi- envision the setup could be a viable competitor in the growing field of smart robotic training systems.

Beyond the game, the team says the table tennis several high-speed cam- tech could be adapted to eras and a high-bandwidth improve the speed and predictive control sys- responsiveness of humanoid robots, particularly estimates the speed and for search-and-rescue scetrajectory of an incoming narios, and situations in a which a robot would of several swing types - need to quickly react or "The problems that

a desired location on the we're solving, specifically table with various types related to intercepting objects really quickly and In tests, the engineers precisely, could potentialthrew 150 balls at the ly be useful in scenarios where a robot has to carry out dynamic maneuvers and plan where its end effector will meet an object, in real-time," says MIT graduate student David Nguyen.

Nguven is a co-author proaches the top return of the new study, along speeds of human players with MIT graduate student Kendrick Cancio and



Sangbae Kim, associate strategy. professor of mechanical engineering and head spectrum of control probof the MIT Biomimetics Robotics Lab. The researchers will present the results of those experiments in a paper at the IEEE International Conference on Robotics and Automation (ICRA) this month.

Building robots to play ping pong is a challenge that researchers have taken up since the 1980s. The problem requires a unique combination of technologies, including high-speed machine vision, fast and nimble motors and actuators, precise manipulator control, and accurate, real-time prediction, as well as higherlevel planning of game "If you think of the

lems in robotics, we have on one end manipulation, which is usually slow and very precise, such as picking up an object and making sure you're grasping it well. On the other end, you have locomotion, which is about being dynamic and adapting to perturbations in your system. Ping pong sits in between those. You're still doing manipulation, in that you have to be precise in hitting the ball, but you have to hit it within 300 milliseconds. So, it balances similar problems of dynamic locomotion and precise manipulation,"

Nguyen explains.

industry professionals team up? The answer may transform the future

upon that information, it system. Throughput refers can improve the through- to units of completed pro- terms of being a server in put of instructions on the cessing per units of time. a restaurant," Gratz said.

Skia transforms computing efficiency of data centres

"Think of throughput in

ADITYA BIRLA CAPITAL LIMITED

Registered Office: Indian Rayon Compound, Veraval, Gujarat - 362 266.
Corporate Office: 12th Floor, R Teck Park, Nirlon Complex, Near Hub Mall, Goregaon (East) Mumbai-400 063, MH

DEMAND NOTICE UNDER SEC 13(2) OF THE SECURITISATION AND RECONSTRUCTION OF FINANCIAL ASSETS AND ENFORCEMENT OF SECURITY INTEREST ACT, 2002 ("THE ACT") READ WITH RULE 3 OF THE SECURITY INTEREST (ENFORCEMENT) RULES, 2002 ("THE RULES") On account of the amalgamation between Aditya Birla Finance Ltd. and Aditya Birla Capital Ltd. vide the Scheme of Amalgamation dated 11.03.2024 duly recorded in the Order passed by the National Company Law Tribunal - Ahmedabad on 24.03.2025, all SARFAESI actions initiated by Aditya Birla Finance Ltd. in relation to the mortgaged property mentioned, stands transferred to Aditya Birla Capita ltd. the amalgamated company

Accordingly the undersigned being the Authorized officer of Aditya Birla Capital Limited (ABCL) under the Act and in exercise of powers conferred under Section 13(12) of the Act read with the Rule 3, issued Demand Notice(s) under Section 13(2) of the Act, calling upon the ollowing borrower(s) to repay the amount mentioned in the respective notice(s) within 60 days from the date of receipt of the said notice The undersigned reasonably believes that borrower(s) is / are avoiding the service of the demand notice(s), therefore the service of notice i eing effected by affixation and publication as per Rules. The contents of demand notice(s) are extracted herein below: n connection with the above, Notice is hereby given, once again, to the said Borrower's / Legal Heir(s) / Legal Representative(s) to pay

to ABCL, within 60 days from the date of the respective Notice/s, the amount indicated herein below against their respective names together with further interest as detailed below from the respective dates mentioned below in column (d) till the date of payment and / or ealisation, read with the loan agreement and other documents / writings, if any, executed by the said Borrower's. As security for due repayment of the loan, the following Secured Asset(s) have been mortgaged to ABCL by the said Borrower's respectively. Demand Notice Date & NPA Date Name and Address of the Borrower(s)

1.	1. M/s. Sri Selvaganapathy Pipes, Through Its Proprietor Mr. Palanisamy Kaliyappan, D Block, New Ward No. 13, T.s.no.4/1, Sidco Industrial Estate, Mettur Dam, Veerakkalpudur, Dist. Salem, Pincode-636402 Also At: M/s. Sri Selvaganapathy Pipes, Through Its Proprietor Mr. Palanisamy Kaliyappan, Door No. 6/3, Chinnaiyareddy Street, Siruthangal Kattu Valavu, Thangamapuripattinam, Mettur Dist. Salem, Pincode-636402 2. Mr. Palanisamy Kaliyappan, (S/o. Kaliyappan S) Chinnaiyareddy Street, Karumalaikoodal, Veerakkalpudur, Dist. Salem, Pincode-636402 Contact: 9952137485 Email: palanigs0774@gmail.com Also At: Mr. Palanisamy Kaliyappan (S/o. Kaliyappan S) Door No. 6/3, Chinnaiyareddy Street, Siruthangal Kattu Valavu, Thangamapuripattinam, Mettur Dist. Salem, Pincode-636402 3. Mrs. Palanisamy Anitha (W/o. Mr. Palanisamy Kaliyappan) Chinnaiyareddy Street, Karumalaikoodal, Veerakkalpudur, Dist. Salem, Pincode-636402 Contact: 9790482687 Email: palanigs0774@gmail.com Also At: Mrs. Palanisamy Anitha (W/o. Mr. Palanisamy Kaliyappan) Door No. 6/3, Chinnaiyareddy Street, Siruthangal Kattu Valavu, Thangamapuripattinam, Mettur Dist. Salem, Pincode-636402. Loan Ac No. ABSLMSTS000000545685	09.05.2025 & 06.05.2025 Total O/s. Dues Amt. Rs. 36,86,652.36 as on 08.05.2025	All That Piece and Parcel of The Land I Salem District, Salem West R.D., Mett. Sub R.O., P.n. Patty Village Patta No. 296 Old S. No. 313/1A, as Per The New S.n. 313/1a5, Punjai Hector 0.18.0, Asst. R. 0.45, Punjai Acre 0.44 Cents Of The Lan And Out Of This Land With An Extent C Punjai Acre 0.19 Cents (or) 8284 Sq.ft. C The Land Is Related To This Discription The Boundaries And Measurements of The Same Are: North Of The Lan Belonged To Ayyankutty, East Of Th North-South Road; South Of The Lan Belonged To Palanisamy Son Of Kaveri West of The Balanced Land Belonged To Palanisamy, within The Above Boundarie Punjai Acre 0.19 Cents (or) 8284 Sq.ft. C Land with Building and with Fitting Of Th Above Building and with All Pathwa Rights And Easement Rights Annexe Thereto. The Above Described Property Situate Within The Limits Of P.N. Patty Tow Panchayat In Nangavalli Union;
2.	1. M/s. Ravi Narayanan Timber Mart, Through Its Proprietor Mr. Ravi Narayanan At: D. No. 18, V N Palayam Post, Avaniyur North Street, Edappadi-637101 Also At: M/s. Ravi Narayanan T.S. No.77, Avaniperur Melmugam Village, Edapaddi Sro, Salem Dt, Edapaddi-637101 2. Mr. Ravi Narayanan, S/o. Narayanan A. D.No. 1B, Avaniur North Street, V N Palayam Post Edappadi, Dist. Salem, Pincode-637101 Contact: 9715059583 Email: Keerthiviraj081@gmail.com Also At: Mr. Ravi Narayanan S/o. Narayanan A. 1B, Avaniur South Street, Edapaddi-637101 Also At: Mr. Ravi Narayanan, S/o. Narayanan A. T.S. No. 77, Avaniperur Melmugam Village, Edapaddi Sro, Salem Dt, Edapaddi-637101. 3. Mrs. Geetha Ravi, D/o Krishnan O. D.No. 1b, Avaniur North Street, V N Palayam Post Edapaddi, Dist. Salem, Pincode-637101 Contact: 9944372583 Also At: Mrs. Geetha Ravi D/o Krishnan O. T.S. No. 77, Avaniperur Melmugam Village, Edapaddi Sro, Salem Dt, Edapaddi-637101 Loan Ac No. ABSLMSTS000000659075AND ABSLMSTS000000832078 further interest, additional Interest at the rate as more particularity.	Rs. 29,85,400/- as on 08.05.2025	All That Piece And Parcel Of The Properl Admeasuring East West North Side 10. Mt, South Side 9.6 Mt, North-south Easide 9.4 Mt, West Side 9.9 Mt, Totally 9 Sq.mt. (979 ½ Sq.feet) Of The Land In Fu And With All Pathway Rights An Easement Rights Annexed Thereto I Tamilnadu, Salem District, Salem Wes Rd, Edappadi Taluk, Door No.1E Avaniperur West Village, In Old Surve No. 224/1a, New Town Survey Ward Not-100 No.15 The North Stock-15, T.S. No.77 Bounded As Follows East By: North-south Main Road, North By: Corporation School, South By: Easwest Municipality Road

ADITYA BIRLA CAPITAL LIMITED

Registered Office: Indian Rayon Compound, Veraval, Gujarat - 362266. Corporate Office: 12th Floor, R Teck Park, Nirlon Complex, Near Hub Mall, Goregaon (East) Mumbai-400 063, MH

E-AUCTION SALE NOTICE 15 days Auction Sale Notice for Sale of Immovable Assets under the Securitisation and Reconstruction of Financial Assets and Enforcement of Security Interest Act, 2002 read with provison to Rule 9 (1) of the Security Interest (Enforcement) Rules, 2002.

On account of the amalgamation between Aditya Birla Finance Ltd. and Aditya Birla Capital Ltd. vide the Scheme of Amalgamation dated 11.03.2024 duly recorded in the Order passed by the National Company Law Tribunal - Ahmedabad on 24.03.2025, all SARFAESI actions initiated by Aditya Birla Finance Ltd. in relation to the mortgaged property mentioned, stands transferred to Aditya Birla Capital Ltd., the amalgamated company.

Accordingly the Authorized Officer of Aditya Birla Capital Limited / Secured Creditor had taken possession of the following secured assets pursuant to

noti of the Bor	ice issued under Sec. 13(2) of Secu he secured debts of the secured cre rowers. Notice is hereby given to the he debts due to the Aditya Birla Ca	of Aditya Biria Capital Limited / Secured Creditor had taken irtitisation & Reconstruction of Financial Assets and Enforceme ditor, for the dues as mentioned herein below with further charg public in general and in particular to the Borrowers and Co-Borri pital Limited will be held on "As is where is", "As is what is"	nt of Security In es and cost the owers that e-aud and "Whateve	nterest Act, 2002 (SARF, reon from the following letion of the following proper there is" basis.	AESI) for recove Borrowers and C perty for realization
	AST DATE OF REC	-AUCTION : 29.05.2025, BETWEE EIPT OF KYC & EARNEST MONEY	DEPOSI	T (EMD) : 28.	.05.2025
Sr. No.		Description of Properties / Secured Assets and Date of Possession		Earnest Money Deposit (EMD) (in Rs.) / Incremental Value) (in Rs.)	
1	2. Mr. Sakthivel, S/o. Mr.kannan,	Tiruppur Registration District, Tiruppur Joint Ii Sub Registration District, Tiruppur North Taluk, Corporation, Samundipuram Area, Laksmi Theater Road, 15 Velampalayam Village, S.f.no 463-12.77 Acres, As Per Sub Division In S.f.no 463/1a1-1.65 Acres In This Portion Of 54.06. Cents Of Lands Laid Out Into House Sites Duly Approved By Tiruppur Local Planning Committee Letter No. 533/2019 Dated 19.09.2019, Project Approval No. 37/2019, Mv/Tnue No. 36/2019 Named As 'Sathvika Nagar' In This Site No.7 With The Following Boundaries; North Of: 20 Lings East West Common Pathway In S.f.no. 463/1a1a, East Of: Site By. 6, South Of: 9.0 Mts East West Thar Road, West Of: Site No.8, On The Both Siders East West 29.6 On The Both Siders North South 67, Of The Extent Of 19761/2 Sq.ft Of Land With Rights Over Layout Roads And Pathway. The Above Property Situated In As Per New Sub Division S.f No. 463/1A1B3, Patta No. 7042.	Rs. 50,44,500/- (Rupees Fifty Lacs Forty Four Thousand and Five Hundred only)	Hundred and Eifty	22.05.2024 & RS. 34,80,396 (Rupees Thirt Four Lakh Eigh Thousand Thre Hundred And Ninety Six-Only due as on 08.05.2024

For detailed terms and conditions of the sale, please refer to the link provided in Aditya Birla Capital Limited / Secured Creditor's website i.e. https://abfl.adityabirlacapitalcom/Pages/Individual/Properties-for-Auction-under-SARFAESI-Act.aspx or https://BidDeal.in Contact Nos.: Aditya Birla Capital Limited, Authorized Officer - 1) Mr. Apoorva Thomas Danthi - apoorva.danthi@adityabirlacapital.com, M. No. 9930909725 You may also risit nearest Branch or contact Aditya Birla Capital Limited 2) Mr. Jahirul Laskar : (Jahirul Laskar@adityabirlacapital.com) M. No. +91 97060 03075, 3) Parneet Singh (parneet.singh@adityabirlacapital.com) M. No. +91 97200 29337, 4) Mr. Srikanth : srikanth.s@adityabirlacapital.com - M. No. 98840 02027

Authorised Office Place : Tiruppur, Tamil Nadu Date: 14.05.2025 Aditya Birla Capital Limited

loads is that the instruction stream - the steps a computer must take for processing - can be too large or difficult to process. Skia, a Greek word for shadow, can not only help better predict future

instructions, but based

A common problem for modern data center work-

bottleneck."

incidental expenses, costs, charges etc incurred till the date of payment and / or realization. If the said Borrower's shall fail to make payment to ABCL as aforesaid, then ABCL shall proceed against the above Secured Asset(s) / Immovable Property (ies) under Section 13(4) of the said Act and the applicable Rules entirely at the risk of the said Borrower's / Legal Heir(s) / Legal Representative(s) as to the

The said Borrower's / Legal Heir(s) / Legal Representative(s) are prohibited under the said Act to transfer the aforesaid Secured Asset(s) Immovable Property(ies), whether by way of sale, lease or otherwise without the prior written consent of ABCL. That please note that this is a final notice under Sec. 13(2) of the Securitization & Reconstruction of Financial Assets & Enforcement of Security Interest Act 2002 (54 of 2002). Needless to say, that ABCL shall be within its right to exercise any or all of the rights referred to above against the borrower(s) entirely at their risk, responsibility & costs. Place: Salem, Tamil Nadu

Authorised Officer Date : 14.05.2025 Aditya Birla Capital Limited