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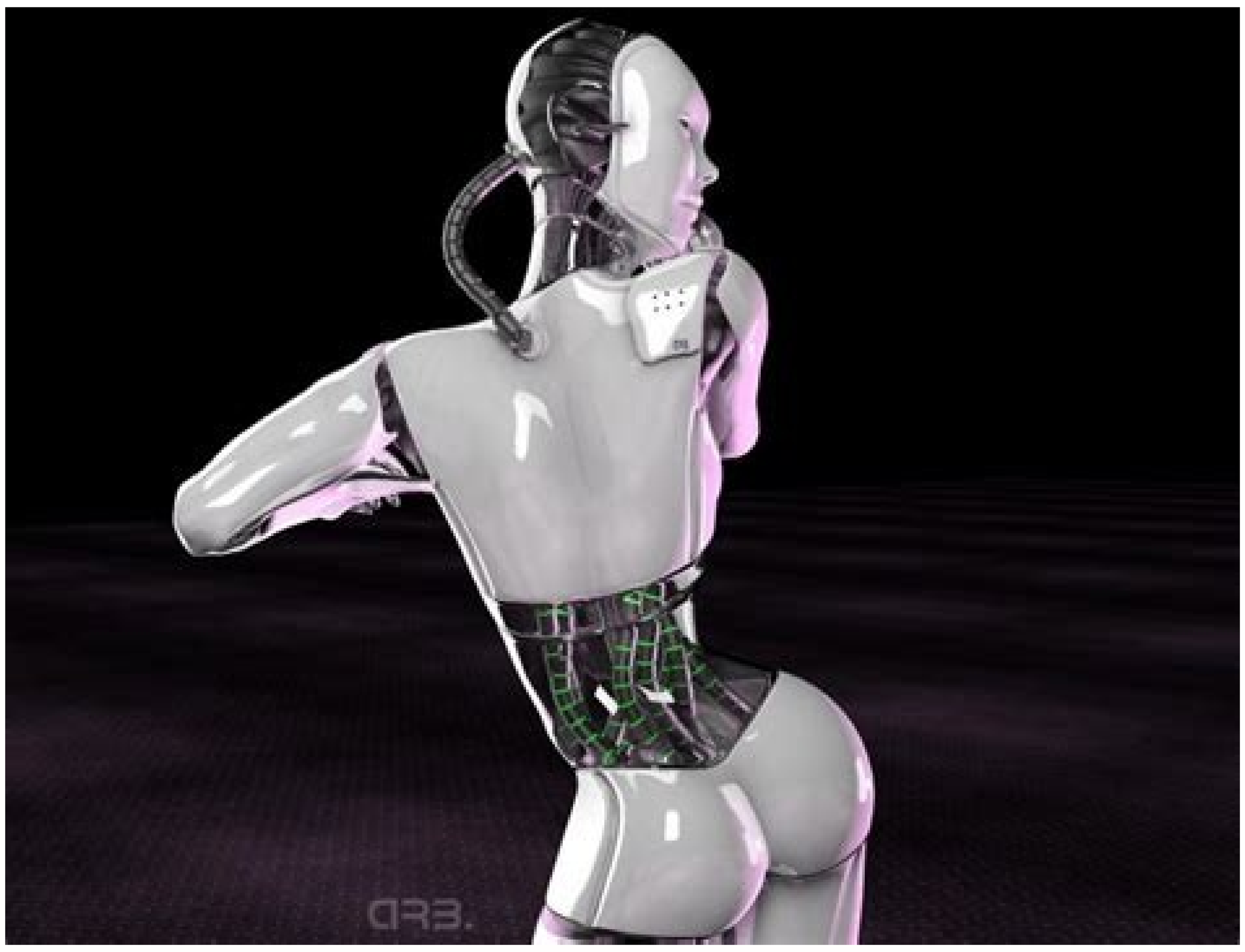

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(Image credit: DARPA)The DARPA Robotics Challenge is a competition of robots (and their developers) capable of assisting humans in natural and man-made disasters. The challenge involves three events: the Virtual Robotics Challenge occurred in June 2013 and tested software teams' ability to guide a simulated robot through three tasks in a virtual environment; the DRC Trials occur December 20-21, 2013, at the Homestead-Miami Speedway, where teams will attempt to guide their robots through eight individual, physical tasks that test mobility, manipulation, dexterity, perception, and operator control mechanisms; the DRC Finals will occur at the end of 2014 and will require robots to attempt a circuit of consecutive physical tasks, with degraded communications between the robots and their operators. The winning team will receive a $2 million prize.(Image credit: Denise Chow/LiveScience)Team Thor's robot drives a vehicle through a marked course on Dec. 21, 2013.Team Tartan Rescue(Image credit: Denise Chow/LiveScience)Team Tartan Rescue's robot, CHIMP, wields a drill during one of the tasks on Dec. 21, 2013 at the DARPA Robotics Challenge.Team Mojavaton(Image credit: Denise Chow/LiveScience)Team Mojavaton's robot, Buddy, tries to close a valve.Team IHMC Robotics(Image credit: Denise Chow/LiveScience)Team IHMC Robotics' humanoid robot steps sideways through a doorway, during one of the tasks on Dec. 21, 2013.(Image credit: Denise Chow/LiveScience)RoboSimian, built by engineers at NASA's Jet Propulsion Laboratory, tries to remove pieces of debris from a doorway.Team Schaft(Image credit: Denise Chow/LiveScience)Team Schaft's robot tries to connect the nozzle of a hose to a wall component during one of the tasks on Dec. 20, 2013.Team Trooper(Image credit: Lockheed Martin via Twitter)Team Trooper's robot tries to climb an industrial ladder during one of the tasks on Dec. 20, 2013. The robot's systems were built by engineers at Lockheed Martin Advanced Technology Laboratories.Team Tartan Rescue(Image credit: Denise Chow/LiveScience)Team Tartain Rescue's CHIMP robot prepares to tackle the terrain challenge on Dec. 20, 2013.NASA-JSC Team Valkyrie(Image credit: Denise Chow/LiveScience)NASA's Valkyrie robot in the team's garage. Valkyrie was built by engineers at NASA's Johnson Space Center in Houston.Team Schaft(Image credit: Denise Chow/LiveScience)Team Schaft's robot attempts to pull open a weighted door in the final part of one of the tasks on Dec. 20, 2013. Page 2 (Image credit: Denise Chow/LiveScience)An engineer with Team Schaft holds a tether connected to the robot, as the machine tries to open a weighted door.(Image credit: Denise Chow/LiveScience)Team Wrecs' two-legged, humanoid robot.Team KAIST(Image credit: Denise Chow/LiveScience)Team KAIST's robot tries to close three different valves during one of the tasks on Dec. 20, 2013.Team Schaft(Image credit: Denise Chow/LiveScience)Team Schaft's robot retrieves a hose and tries to connect it to the wall during one of the tasks on Dec. 20, 2013.Team Mojavaton(Image credit: Denise Chow/LiveScience)Team Mojavaton's four-legged robot tries to walk over ramps and pies of rubble, as part of the terrain challenge.(Image credit: Denise Chow/LiveScience)The engineers behind Team Wrecs pose with their robot on Dec. 20, 2013.Team HKU(Image credit: Denise Chow/LiveScience)Team HKU's two-legged, humanoid robot tries to walk over different types of terrain.Valkyrie(Image credit: NASA/DARPA)This next-generation humanoid robot, dubbed Valkyrie (Val), is being developed by NASA Johnson Space Center to perform dynamic, dexterous and perception-intensive tasks in a variety of scenarios, according to DARPA. Val is 6 foot 2 inches tall (1.9 meters) and sports a glowing NASA logo on its chest. "We really wanted to design the appearance of this robot to be one that when you saw it you were going to be like, 'Wow, that's awesome," the team leader for Valkyrie, Nicolaus Radford told IEEE Spectrum in a video about the robot. "It's a 44 degree of freedom robot, very capable, very strong, completely self contained. We have a two kilowatt hour battery, lots of onboard computing."Schaft(Image credit: SCHAFT/DARPA)A Japanese team with SCHAFT Inc. is building a bipedal robot that will stand 4.9 feet (1.5 meters) tall and weigh about 210 pounds (95 kg); the bot is based on hardware and software designed for its existing HRP-2 robot. SCHAFT will create an Intelligent Robot Kernel in which it will combine the necessary software modules for recognition, planning, motion generation, motion control and a user interface. The group will divide into three teams to execute the tasks: hardware design, software integration and scenario testing, according to DARPA.Hubo(Image credit: Drexel University/DARPA)The Hubo is Drexel University's bipedal robot, which will stand 55 inches (140 centimeters) tall and weigh some 132 lbs. (60 kg). The team has created seven full-sized Hubos, one for each team member. "This infrastructure will catalyze a multi-university effort to 'hit the ground running' and successfully address all anticipated DRC events in a 'program-test-perfect' model," according to DARPA's website. Page 3 (Image credit: Virginia Tech/DARPA)THOR, a Tactical Hazardous Operations Robot, being developed by Virginia Tech is expected to be agile and resilient with perception, planning and human interface technology that infers a human operator's intent, according to the DARPA website. The team is also developing a second, more traditional, robot to be on the safe side. "We are developing two humanoid robot platforms for the DRC. One is 'THOR,' a humanoid robot using cutting-edge technology (custom series elastic actuators with impedance control, and momentum control for walking). The other is 'THOR-OP,' a more 'traditional' humanoid robot that utilizes position-controlled servos for actuation and ZMP based walking algorithms," the team writes on the DARPA website.(Image credit: Carnegie Mellon University/DARPA)Carnegie Mellon University-NREC is developing the CHIMP (CMU Highly Intelligent Mobile Platform) robot for executing complex tasks in dangerous, degraded, human-engineered environments. CHIMP will stand 5 foot 2 inches and weigh a whopping 400 lbs. (180 kg). "We faced the difficult challenge of designing and building the robot at the same time that we developed the software. Without a complete robot, we developed and tested much of the software using a simulator and a surrogate robot arm. We used the results of the simulation tests to put finishing touches on the hardware design as the robot came together," the team writes on the DARPA site.RoboSimian(Image credit: NASA/DARPA)NASA Jet Propulsion Labs is building a simian-inspired, limbed robot called RoboSimian that will use deliberate and stable operations to complete challenging tasks under supervised teleoperation (shown here in this conceptual image). RoboSimian will use its four limbs and hands to achieve passively stable stances, create multi-point anchored connections to supports such as ladders, railings and stair treads, and brace itself during forceful manipulation operations, according to DARPA.Intelligent Pioneer(Image credit: Team Intelligent Pioneer/DARPA)The Intelligent Pioneer robot is being developed by the Institute of Advanced Manufacturing Technology, Hefei Institute of Physical Science and Chinese Academy of Science in Jiangshu, China.Buddy(Image credit: Team Mojavaton/DARPA)Team Mojavaton, from Grand Junction, Colo., is building a four-legged robot that stands nearly 5 feet (1.5 meters) tall. Engineers made use of 3D-printed plastic to keep the robot lightweight, at 37 pounds (17 kilograms). Team Mojavaton is primarily made up of professors and students from Colorado Mesa University in Grand Junction, Colo. The group built the robot hardware and software systems using only their own funds.(Image credit: Team Chiron/DARPA)Team Chiron, from Salt Lake City, is building a six-legged robot using existing technology and components. The robot's six legs will give it greater dexterity, and could help it navigate deftly over flat and uneven terrain, according to team officials. Team Chiron's robot stands 36 inches (91 centimeters) tall, and weighs 150 pounds (68 kilograms). An attendee at Consumer Electronics Show (CES) 2022, places a finger inside the mouth of Yukai Engineering Inc.'s Amagami Ham Ham, a play-biting cat robot. PATRICK T. FALLON/AFP via Getty Images Most robots have movable bodies. Some only have motorized wheels, and others have dozens of movable segments, typically made of metal or plastic. Like the bones in your body, the individual segments are connected together with joints. Robots spin wheels and pivot jointed segments with some sort of actuator. Some robots use electric motors and solenoids as actuators; some use a hydraulic system; and some use a pneumatic system (a system driven by compressed gases). Robots may use a combination of all these actuator types. A robot needs a power source to drive these actuators. Most robots either have batteries or plug into the wall. Some may use solar power or fuel cells. Hydraulic robots also need a pump to pressurize the hydraulic fluid, and pneumatic robots need an air compressor or compressed-air tanks. The actuators are all wired to electrical circuits. The circuits power electrical motors and solenoids directly and activate hydraulic systems by manipulating electrical valves. The valves determine the pressurized fluid's path through the machine. To move a hydraulic leg, for example, the robot's controller would open the valve leading from the fluid pump to a piston cylinder attached to that leg. The pressurized fluid would extend the piston, swiveling the leg forward. Typically, in order to move their segments in two directions, robots use pistons that can push both ways. The robot's computer controls everything attached to the circuits. To move the robot, the computer switches on all the necessary motors and valves. Many robots are reprogrammable — to change the robot's behavior, you update or change the software that gives the robot its instructions. Not all robots have sensory systems, and few can see, hear, smell or taste. The most common robotic sense is the sense of movement — the robot's ability to monitor its own motion. One way to do this is to use a laser on the bottom of the robot to illuminate the floor while a camera measures the distance and speed traveled. This is the same basic system used in computer mice. Roomba vacuums use infrared light to detect objects in their path and photoelectric cells measure changes in light. These are the basic nuts and bolts of robotics. Roboticists can combine these elements in an infinite number of ways to create robots of unlimited complexity.

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