**Literature Review**

This literature review contains all information about human-elephant conflicts and explains the previous study material and existing platforms already presented in similar domains; it covers everything from the basic information about elephants to human-elephant conflicts, the literature starts by explaining the basic information about the elephants in Sri Lanka, and it extends to explain how elephant supports Sri Lankan tourism then it detailly goes with the human-elephant conflicts and deaths and properties damages and existing manual solutions and the point of technological solutions, etc.

**Elephants in Sri Lanka**

According to a research animal science paper, Sri Lankan elephant types are (Elephas maximus maximus) and are native to Sri Lanka. The Asian elephant (Elephas maximus) is categorized as Endangered in the IUCN Red List (IUCN, 2007). They have recognized subspecies of the Asian elephant (*Ahimsa Campos-Arceiz 2009*).  Among all the beasts of the world, the elephant is the only one demonstrating God’s power and wisdom like no other. (*The History of Four-Footed Beasts, Serpents and Insects by Edward Topsell).* The Sri Lankan elephant population is currently mostly restricted to the dry zone within the north, east, and southeast of land. Elephants area unit gift in Udawalawe park, Yala park, Lunugamvehera park, Wilpattu park, and Minneriya park however conjointly live outside protected areas (*Article from* [*https://www.natureodyssey.com/*](https://www.natureodyssey.com/)). Sri Lanka holds a crucial position with relation to Asian elephant conservation. spill 100 percent of the world Asian elephant population in but a pair of of elephant vary (Leimgruber et al. 2003). Human–elephant conflict (HEC) is a key environmental issue in several Asian countries, including Sri Lanka. Incidents of HEC have significantly increased in Sri Lanka between 1991 and 2018, with 1734 human deaths reported in this period (281% increase), 4837 elephant deaths (1172% increase), 1053 human injuries (140% increase), and more than 23,000 property damage reports (1406% increase). The elephant is taken into account joined of the celebrities of the kingdom Animalia and may be a distinguished image of life conservation in Sri Lanka. The elephant has compete a central half in Sri Lankan history, culture, faith and mythology (and latterly politics) for over twenty-five centuries (Santiapillai, 1997 a). Tamed elephants have long been used for numerous forms of add the country as well as moving hardwoods, building and transportation hundreds.

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Figure : Elephant Deaths in Sri Lanka (2010)

Figure : Elephant Deaths in Sri Lanka (1998-2010)

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Figure : Elephant Population in Sri Lanka.

**Elephants and Tourism in Sri Lanka**

The island is famous for its tourism. Some of the favorite places visited by the tourists are Yala, UWNP, Pinnawala Elephant Orphanage, and the Minneriya-Kaudulla national parks *(ft.lk).* Most significantly, the general value of one wild elephant to Sri Lankan commercial enterprise is on the brink of Rs. four million or $ twenty one,400 *(lankaenvironmentfund.org Dec 25, 2020).* Elephant-related tourism is worth over Rs. 1 billion or $ 5.8 million per year to Sri Lanka – over four times as much as tea! *(ft.lk).* According to the statistics, 1,100,435 international guests visited Sri Lanka in 2018, visited Sri Lanka’s several life and national parks. Sri Lanka earned Rs. 2,138,450,422.38 in entrance fees alone particularly the elephants were one amongst the favorite picks among them in addition *(ft.lk - 2018 census)*

A picture containing grass, outdoor, mountain, field

Description automatically generated

Figure : Sri Lankan Elephant Tourism 1

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Figure : Sri Lankan Elephant Tourism 2

**A group of people riding an elephant

Description automatically generated**

Figure : Sri Lankan Elephant Tourism 3



Figure : Sri Lankan Elephant Tourism Image 4

**Human-Elephants Conflicts in Sri Lanka**

In conflicts between elephants and humans, crop-raiding, injuries and deaths to humans caused by elephants, and elephants killed by humans for reasons other than ivory are common *(Research Paper: wwf.panda.org and World Wildlife Fund).*  *However, human-elephant conflicts also arise, 3,500 elephants require around 17,500 km2, or 27 percentage of the total land area while the protected areas in Sri Lanka cover only 12.5 percentage of the land area (or 8,200 km2). The lack of sufficient land area for the existence of elephants is the foremost reason for human-elephant conflicts (ceylonexpeditions.com).* *A total of 112 persons were killed due to elephant attacks in 2020 (xinhuanet.com).* The conflict threatens community livelihoods, and food security, and may even cause human fatalities. The ensuing economic stress to marginalized rural communities causes over $10 million in crop and property injury annually in the state *(oneearth.org*). The institution of protected areas which give feeding, breeding, and residing habitats to the elephants may play a key role in addressing human-elephant conflict in country. These areas can physically separate humans and elephants. moreover, effort corridors that connect fragmented habitats can offer additional areas for these mammals to graze. The presence of corridors supports the elephants in their seasonal migration and additionally helps them to search out food throughout the time of year *(www.slycantrust.org/)*.

*Chart, line chart

Description automatically generated*

Figure : Human-Elephant Conflicts Chart



Figure : Human-Elephant Conflict Image 1

A picture containing building, outdoor, house, brick

Description automatically generated

Figure : Human-Elephant Conflict Image 2

A group of people standing next to a pile of wood

Description automatically generated with low confidence

Figure : Human-Elephant Conflict Image 3

**Elephants Destroy Farmers Lives**

According to the research, the famers are earns and their life is affected by human elephant conflicts: The overwhelming majority (89%) of the farming families seem to earn but Rs. 120,000 (US$ 1,200) each year. solely in 100% of the cases will the annual financial gain ranges between Rs. 120,000 and Rs. 240,000, whereas only one earn quite Rs. 240,000 (US$ 2,400). The annual financial gain of the families seems to be sadly inadequate. The poorest forty fifth earn but Rs. 3,000 (US$ 30) a month. As way because the losses area unit involved, twenty fifth incur associate degree annual loss of but Rs. 5,000 whereas thirty second incur between Rs. 5,000 to Rs. 20,000 a year. however the bulk (43%) suffers associate degree annual loss of over Rs. 20,000 (US$ 200). Farmers everywhere the globe do exaggerate their losses, even so, their losses area unit real and therefore shouldn't be unheeded. (*Rukmali Athurupana October 2010*)



Figure : Elephant Destroy Corps 1

A field of green plants

Description automatically generated with low confidence

Figure : Elephant Destroy Corps 2

Chart, bar chart

Description automatically generated

Figure : Elephant Preferred Foods

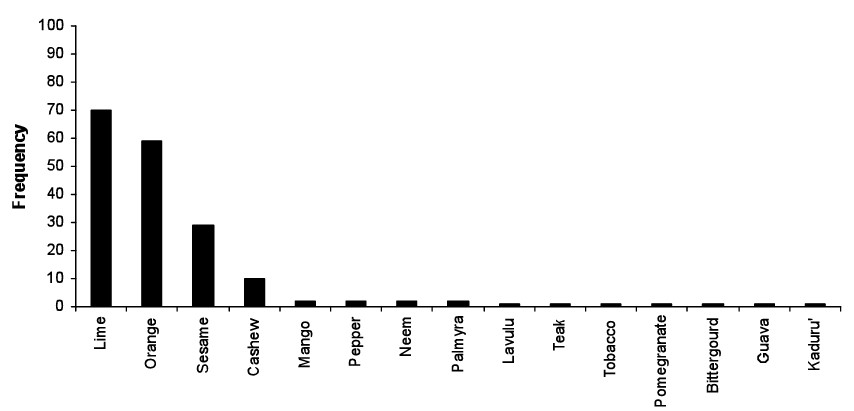


Figure : Elephant Avoid Foods

**Existing Solutions for Human Elephant Conflicts**

**Building Electric Fences**

**Electric fences area units are of to be the foremost effective human-elephant conflict mitigation measure as long as they're strategically set and well enforced. Such fences additionally seem to be the people's favorite answer to the elephant mitigation problem since they physically separate human and elephant territories. The IUCN (2000) states that this technique may be economically economical thanks to conserving these valued animals.**

**The electrical fences don't stop the impact of elephant attacks. Some studies have found that some elephants square measure 'habitual fence breakers' (IUCN, 1996). alternative studies have shown that fences must be compelled to be electrified in most grassland elephant ranges since these square measure places wherever crop raiders are determined and protracted. However, other studies realize that electrification isn't required for the maximum amount in forest elephant ranges wherever elephants seem not to be thus persistent at crop offensive (IUCN, 2000).**



Figure : Elephant Breaks Electric Fence

**Other Existing Natural Solutions**

Farmers are using some external methods to scare the elephants such as shouting and firecrackers to chase away elephants entering their fields.  Building an automatic device to make sound is important because farmers usually stay up whole night while guarding their cultivation which affects their day-to-day activities *(*[*https://www.slycantrust.org/*](https://www.slycantrust.org/)*);* Elephants can be chased away by using bonfires, torches, and flashlights. Solar flashlights, which are sustainable, can be used to make this process more efficient.

Farmers can distribute the lights and place them strategically to cover the entire agricultural area. Light repels systems have demonstrated positive results in preventing elephants from entering cultivated lands, according to the *(Wildlife and Nature Protection Society of Sri Lanka's Annual Report 2019)*. To ensure the efficiency of the process, farmers must follow up on maintenance.

**Growing unattractive crops:** Elephants are fond of crops such as paddy. By growing less attractive crops together with these crops, farmers can reduce the impacts of elephants on their cultivation (<https://www.slycantrust.org/)>;

**Translocation:** Elephants that damage houses, feed on crops, and even kill humans can be tranquilized and transported to another location. After some time, translocated elephants return to their original territories, according to studies. As a result, this is not a long-term solution to the conflict between humans and elephants.

**Technology Based Solutions**

Today, the use of machine learning and artificial intelligence is crucial as technology continues to grow. AI can solve most past unsolved circumstances with better implementation. There is a growing interest in artificial intelligence and most tech personnel express their view that AI is the future. In addition to reducing the human-elephant conflict, AI systems were and are developed that send alerts to the villages that enable them to dread elephants before they reach the destination of the system, especially the buzzy bee sound that is widely used to frighten elephants *(BINITA KHANAL Enschede, The Netherlands, June 2022)*.

AI system involves small cameras that work remotely, hidden in a tree above the reach of elephants. When the camera’s motion sensor is triggered, it uses computer vision to detect elephants in the frame. It transmits those images in near-real time to the cell phones of village guardians (WildEyes AI by NGO RESOLVE and CVEDIA).

The scalable, affordable system, funded partly by One Earth, uses new advances in computing technology to find elephants and transmit alerts to life managers and communities to forestall conflict things before they occur (WildEyes AI).

The Global Positioning System (GPS) collar system used today is another approach towards tracking elephants currently used only to identify migration patterns of elephants (*Research paper: 2014 Texas Instruments India Educators' Conference by Amalinda Gamage and Malitha Wijesundara)*

These days modern technology enables the ability to monitor elephants’ movement with GSM and satellite images. The collected elephant movement data can be analyzed and monitored with the help of artificial intelligence algorithms. These software algorithms issue alert messages and facilitate rapid response if some elephants become unnaturally immobile. STE tracking app uses AI algorithms to visualize and track elephants and investigate their behavior (*Save the Elephants project:* [*https://www.savetheelephants.org*](https://www.savetheelephants.org)*)*

In Africa, They are leveraging Artificial Intelligence and Machine Learning technologies with drone and camera to stop poaching issues. There is a vision processing platform called (Neurala’s AI) that platform is AI-powered and that software can process terabytes of video data in real-time captured by drones, this software uses the deep neural network to track and predict the movement patterns of elephants and other animals (Neurala’s AI: <https://www.neurala.com>).

in Africa, The WildEyes AI is a camera system that uses artificial intelligence technology to monitor African elephants and sends alerts in real time; helping to greatly reduce the risk of human-elephant conflict or enhance research and monitoring efforts; WildEyes AI’s journey started in 2014 during the Great Elephant Census, a continent-wide survey of the entire African elephant population conceptualized (by Paul G. Allen).

In Cambodia, “Wild Earth Allies” is a community-based startup using Camera Traps to protect Asian Elephants. Camera traps are an important conservation tool, as they facilitate remote wildlife monitoring *(Wild Earth Allies Cambodia Community Field Lead Srey Ben)*.



Figure : Camera Trap in Cambodia (Wild Earth Allies)

They way computer learn, it learns different variations within a species, as well as what an animal might look like in a wide variety of poses and from different perspectives (Arjan Wijnveen CEO of CVEDIA), According to Dinerstein and Wijnveen, this not only makes the AI better-placed to recognize its target, but also prepares the system to recognize it from any angle.

When a camera is deployed in the field, all of this training is stored in a deep neural network on the SD card. This is the same technology that allows a self-driving car to recognize a pedestrian in a crosswalk ahead *(Mongabay Series: Sue Palminteri WildTech Reporting Fellowship).*

The camera itself, designed by RESOLVE engineer Steve Gulick, is housed in a thin camouflaged strip that houses a motion detector as well as two sensors for different lighting conditions. It is powered by a battery that lasts at least one and a half years (WildEyes).

Believe the WildEyes can be integrated into existing deterrent systems. Her organization provides farmers with wildlife conflict training and deterrent kits developed by the organization Honeyguide, which use light, noise, and trunk-tickling chili pepper to turn African elephants away from fields humanely *(Silvia Ceppi, a scientific adviser with the NGO Instituto Oikos' East Africa office, Tanzania).*

ForestGuard AI is a platform built by CVEDIA for potential future use, where it could spot logging trucks as they enter forests, to stop illegal timber harvest before it happens (*CVEDIA*).

The experience has shown that farmers are willing to invest at least half the cost of powerful torches, which are the most expensive asset in the toolkit; farmers are willing to invest in crops-protection technologies that are convincing and proven to work *(Ceppi - Researcher).*

Perhaps, in the future, we can protect elephants while giving farmers more good nights’ sleep their farms protected not by human eyes, but by AI *(RESOLVE was a co-founder of Mongabay’s WildTech)*

Tracking imperiled elephants with cutting-edge technology, with the warden, we started tracking elephants for security in Meru National Park in 2003. Those were old-fashioned collars; WildTech spoke with Iain Douglas-Hamilton *(by Caleb O'Brien, Sue Palminteri on 2 December 2015)*

Graphical user interface

Description automatically generated

Figure : WildEyes Camera Trap Output

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Figure : WildEyes Camera Trap Output

The Elephants and Bees Project is part of the Human Elephant Coexistence Program at Save the Elephants, which is based in Sagalla, Kenya, near Tsavo National Park. Our award-winning project investigates the use of Beehive Fences as a natural elephant deterrent, thereby assisting in the protection of farmers and farmland. The concept is based on our innovative research that uses elephants' fear of African honeybees to help reduce crop damage and other human-elephant conflicts *(Elephants and Bees Project: https://elephantsandbees.com/)*

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Figure : Elephants and Bees Project

We spend 80 percent of our time at the Sagalla test site [near Tsavo East National Park], and we've been assisting new partners in Africa and Asia in establishing beehive fence projects [here's one from South Africa]. Of course, these fences will not solve all HEC issues (*Douglas-Hamilton WildTech).*

**Computer Vision Technology**

A convolutional neural network (CNN) is an artificial deep neural network used for feed-forward to achieve computer vision-related tasks, for example, classification and identification of images / digital videos; CNN is like conventional neural networks but with deeper strata. This has weights, biases, and a nonlinear efficiency Switch (S, Ramesh, and Divya, 2016).

Computer vision is an interdisciplinary scientific field that deals with how computers can gain a high-level understanding of digital images or videos. From the perspective of engineering, it seeks to understand and automate tasks that the human visual system can *do (Zhanyu Ma; Haibin Ling; Yi-Zhe Song; Timothy Hospedales; Wei Jia; Yuxin Peng 25 June 2018)*

We are attempting to do the inverse in computer vision, that is, to describe the world we see in one or more images and reconstruct its properties, such as shape, illumination, and color distributions. Humans and animals can do this so effortlessly, whereas computer vision algorithms are notoriously prone to errors. People who have not worked in the field frequently underestimate the problem's difficulty. This misconception about vision dates back to the early days of Artificial Intelligence when it was thought that intelligence's cognitive (logic proving and planning) components were inherently more difficult than the perceptual components (Boden: Source: Computer Vision: Algorithms and Applications by Richard Szeliski).

Parts of the complexity of the human vision system are being replicated, allowing computers to identify and process objects in images and videos in the same way that humans do. Until recently, computer vision could only perform limited tasks. With advances in artificial intelligence and innovations in deep learning and neural networks, the field has been able to make significant strides in recent years, surpassing humans in some tasks related to object detection and labeling *(Ilija Mihajlovic)*

YOLO (you only look once) is an object detection algorithm that divides images into grids. Each grid cell is in charge of detecting objects within itself. Because of its speed and accuracy, YOLO is one of the most well-known object detection algorithms (*by Louis Bouchard in a medium article*).

The field of computer vision is an intellectual frontier. It is exciting and disorganized, as is any frontier, and there is frequently no reliable authority to appeal to. Many useful ideas lack theoretical foundations, and some theories are useless in practice; developed areas are widely dispersed, and one often appears completely inaccessible from the other. Nonetheless, we have attempted to present a fairly orderly picture of the field in this book *(Computer Vision: A Modern Approach by D. Forsyth, J. Ponce).*

Applications built on animal detection play a vital role in providing solutions to various real-life problems *(S. Sharma and D. J. Shah Jun. 2013.)*

To reduce observation costs, labor, and logistics, ecologists increasingly turn to greater automation to locate, count, and identify organisms in natural environments *(Pimm et al., 2015).*

Automating the Analysis of Camera Trap Images: Prior to the widespread adoption of deep learning systems, computer vision researchers devised several innovative and moderately successful methods for automating the analysis of animals from camera traps using raw pixel data from images *(Stefan Schneider∗, Graham W. Taylor†, Stefan C. Kremer∗ Deep Learning Object Detection Methods for Ecological Camera Trap Data).*

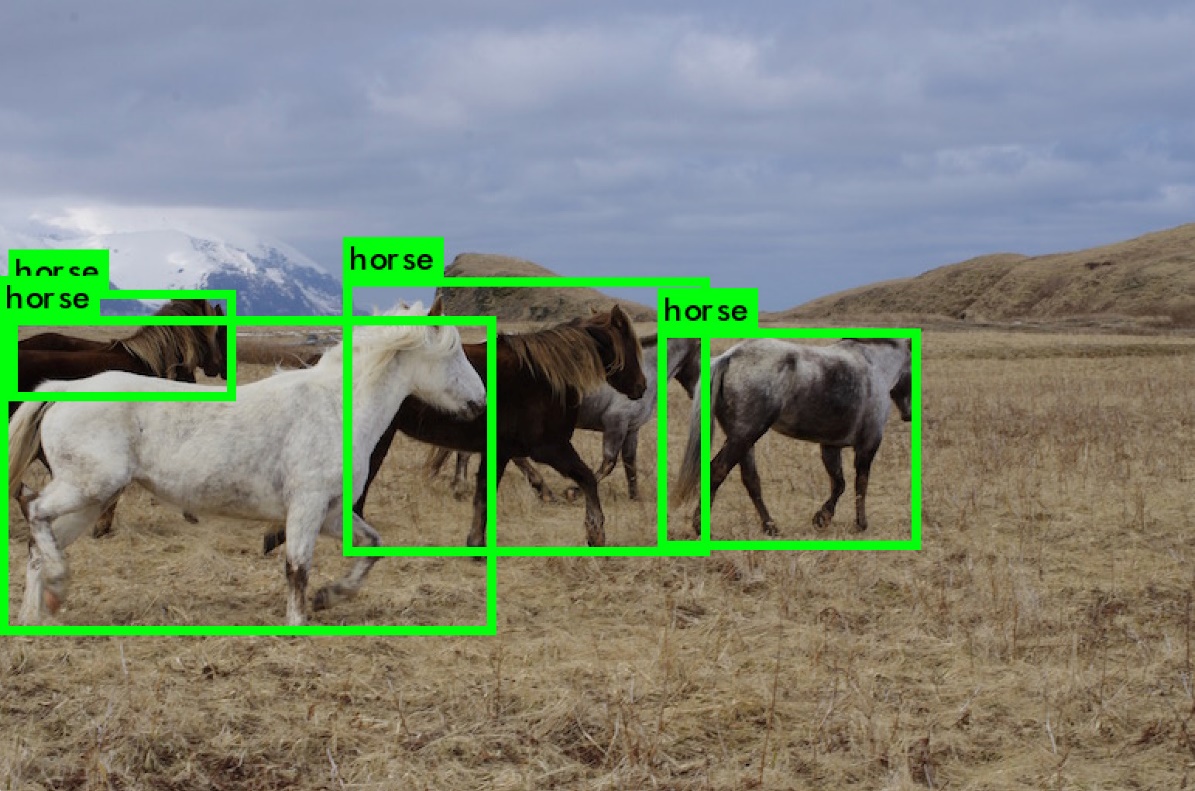


Figure : Computer Vision Technology Animal Detection